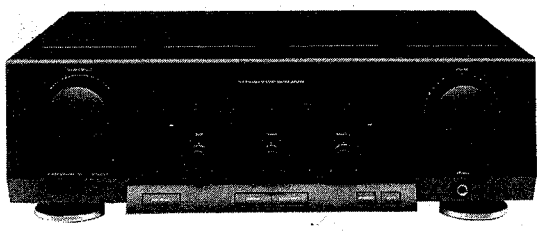
4567

AMPLIFIER 70FA910

/00S/01S/05S/10S

Service
Service
Service



Service Manual

CONTENTS

	PAGE
Specifcations	2
Controls	3
Connections	4
Warnings and Servicing hints	5
Service Test Progam	6
Electrical adjustments	6
Wiring diagram	7-8
Front selector 1 diagram	9-11
Front selector 2 diagram	12-14
Front selector P.C.B	15-17
Power unit diagram	18-20
Power unit P.C.B	21-23
List of mechanical parts	24
Exploded view	25-26
List of electrical parts	27-32

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PHILIPS

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4567

PCS 57 569

SPECIFICATION

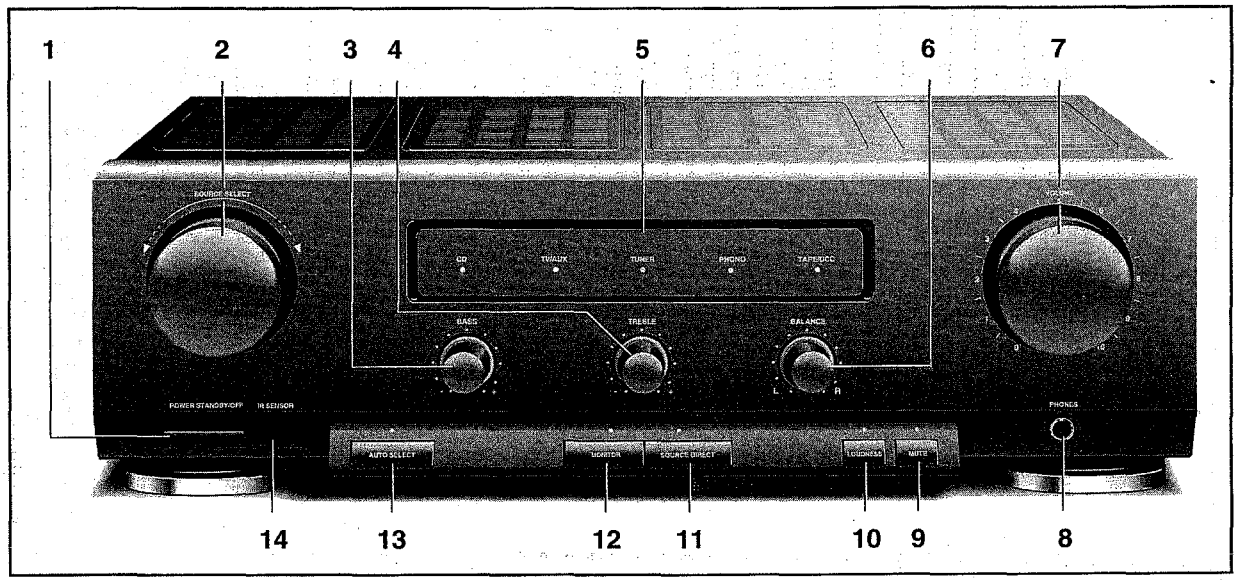
General:

Mains voltage:	220V 50Hz for/00 240V 50Hz for/05 242V 50Hz for/10 115/230V 50Hz for/01 (with selector)
Power consumption :	≤150W at 2x30W output power ≤ 15W at stand by
Dimensions:(wxhxd) :	435x124x300 mm

Amplifier:

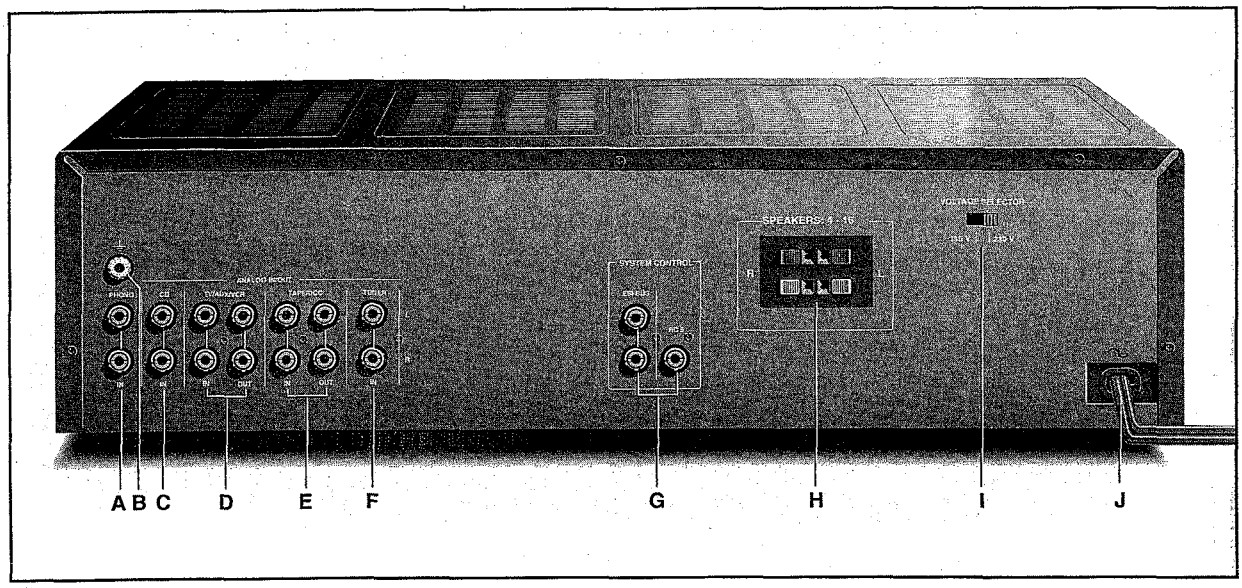
Output power & :	2x30W at 8Ω D=≤0,7% (IEC)
Distortion (D) :	2x25W at 8Ω D=≤0,02% (at 1kHz) 2x20W at 8Ω D=≤0,1% (20Hz...20kHz)
Music power :	2x50W
Sign.Noise :	
Phone input (5mv)	≥75dB (A-curve weighted)
Other inputs (500mv)	≥95dB (A-curve weighted)
Crosstalk :	
Between channels	≥65dB (100Hz.....10kHz)
source	≥50dB (100Hz.....10kHz)
Headphone :	6,3mm stereo jack ≥5V into 120Ω
Frequency response :	15Hz -40kHz ≤1dB
Tone controle :	Bass +10dB to -10dB ±2dB at 80Hz Treble +10dB to -10dB ±2dB at 10kHZ Loudness +6dB ±2dB volume ≤40dB at 100Hz +4dB ±1,5dB volume ≤40dB at10kHz
Input sensitivity :	
Tuner	150mV Ri ≥ 20kΩ
TV/VCR	150mV Ri ≥ 20kΩ
CD	150mV Ri ≥ 20kΩ
Tape	150mV Ri ≥ 20kΩ
Phone/MM	2,5mV Ri ≥ 47kΩ/220pf
Output voltage :	
TV/VCR	150mV Ro < 2k5
Tape	150mV Ro < 2k5

CONTROLS



		Pos.nr.
1)	Standby + acknowledge led	D6648
	Power off/standby button	1525
2)	Source sel.knob	1605
3)	Bass knob	3651
4)	Treble knob	3652
5)	Display and indication led	
	CD indication led (red)	D6642
	TV/AUX indication led (red)	D6644
	Tuner indication led (red)	D6645
	Phone indication led (red)	D6646
	Tape/DCC indication led (red)	D6647
6)	Balance knob	3603
7)	Volume knob	3601
8)	Headphone	1601
9)	Mute button + Red indic.led	1611 + D6640
10)	Loudness button + Red indic.led	1608 + D6635
11)	Source direct but. + Red indic.led	1606 + D6636
12)	Monitor button + Red indic.led	1612 + D6641
13)	Auto-select button + Red indic.led	1637 + D6639
14)	IR-receiver eye	6700

CONNECTIONS



			Pos.nr.
A)	Phone	input	1401
B)	Phone	ground	
C)	CD	input	1401
D)	TV/AUX	input	1401
	AUX/VCR	output	1401
E)	Tape/DCC	input	1404
	Tape/DCC	output	1404
F)	Tuner	input	1404
G)	Easy link	Bus	1261
	RC 5	Bus	1262
H)	Speaker	Right	1263
	Speaker	Left	1263
I)	Voltage selector (for/01 only)		1532
J)	Fixed mainscord		

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambiago identici a quelli specificati.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pieces de rechange identiques à celles spécifiées.

Pour votre sécurité, ces documents doivent etre utilisés par des specialistes agrées, seuls habilités à réparer votre appareil en panne.

WARNINGS

GB WARNING

All ICs and many other semi conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.When reparing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

NL WAARSCHUWING

Alle ICs en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD)
Onzorgvuldig behandelen tijden reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat U tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber electrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrair étre considérablement écourtée par le fait qu'aucune precaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien étre relié au meme potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller á ce que les composants ainsi que les outils que l'on utilise soient également á ce potentiel.

I AVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche. (ESD)
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

SERVICE TEST PROGRAM

Processor Test

The test can be called up by pressing the keys Loudness and mute at te same time when te amplifier is switched on.The following lamps and leds will now be lit. Step A (fig 1)

When any key is pressed the following lamps and leds will now lit. Step B (fig 1) Press again a key to step E and check every step. (fig 1)

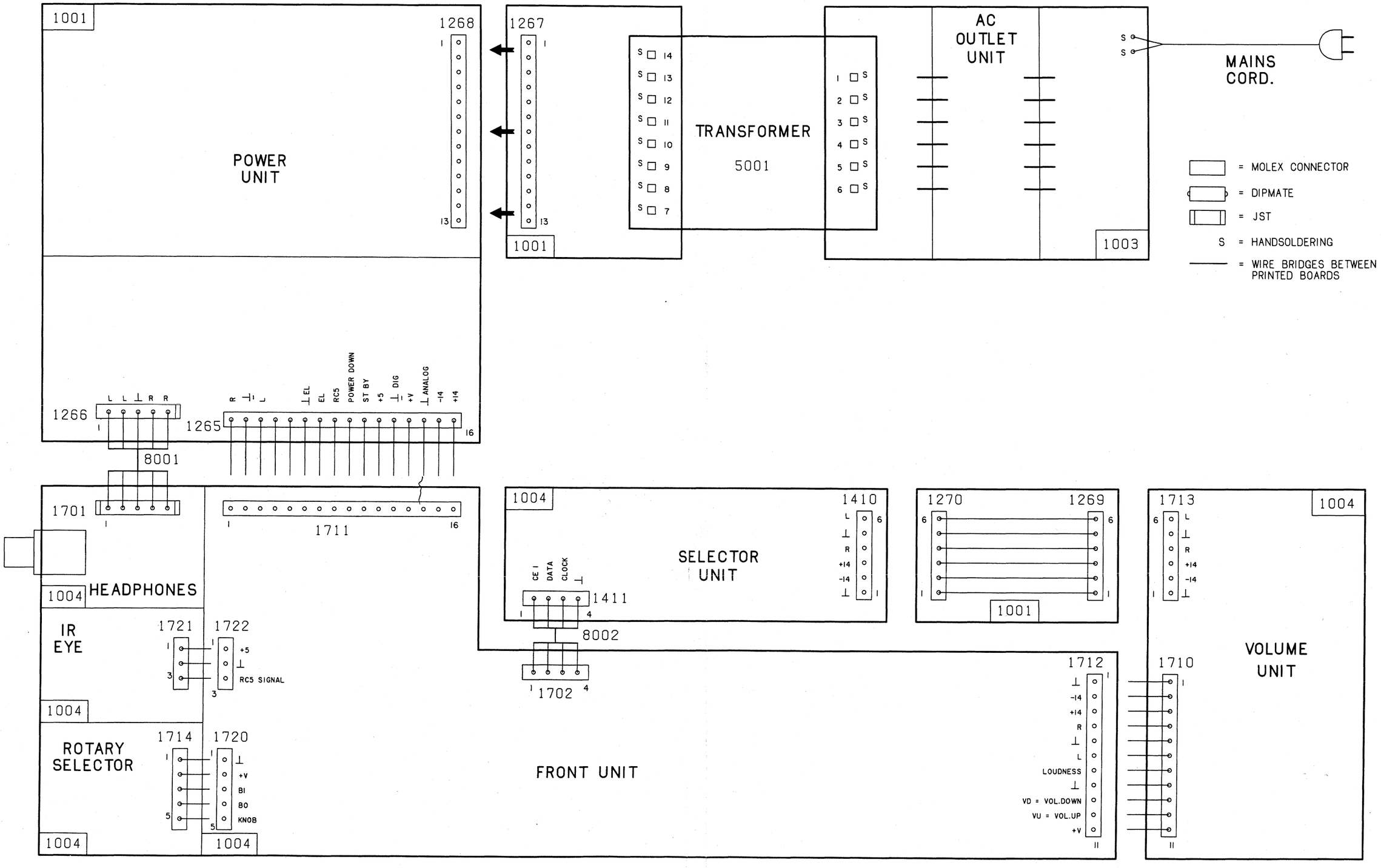
When a key is pressed after step E the volume knob turns for about 4 seconds right and 4 seconds left to check if the volume control works

Steps	A	B	C	D	E
Indication Leds					
CD	off	off	off	off	on
TV/AUX	off	off	off	on	off
TUNER	off	off	on	off	off
PHONE	off	on	off	off	off
TAPE/DCC	on	off	off	off	off
Source Leds					
St/BY	on	off	on	off	on
Auto select	off	on	off	on	off
Monitor	on	off	on	off	on
Sour.Dir.	off	on	off	on	off
Loudness	on	off	on	off	on
Mute	off	on	off	on	off

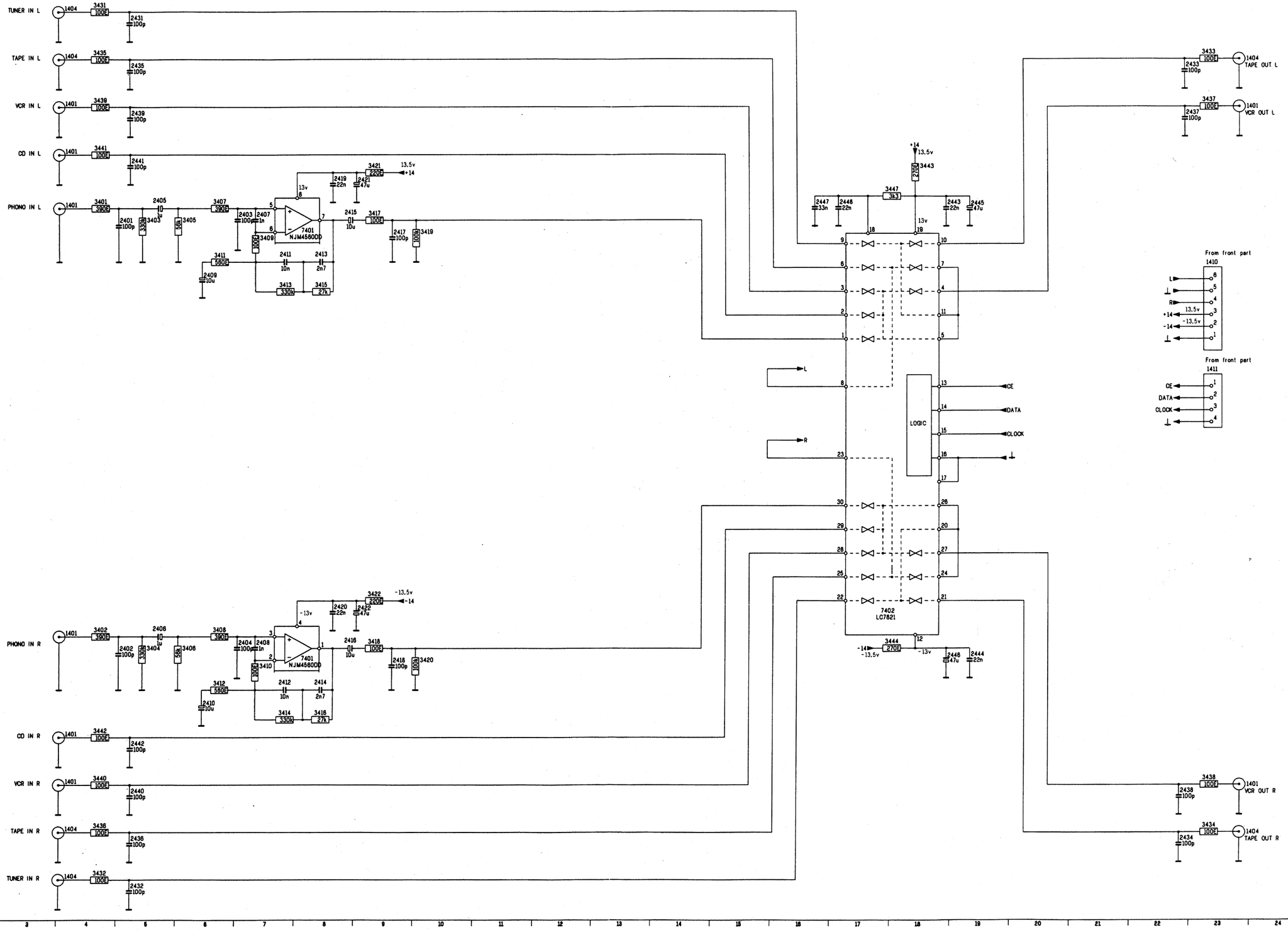
Quiescent Current

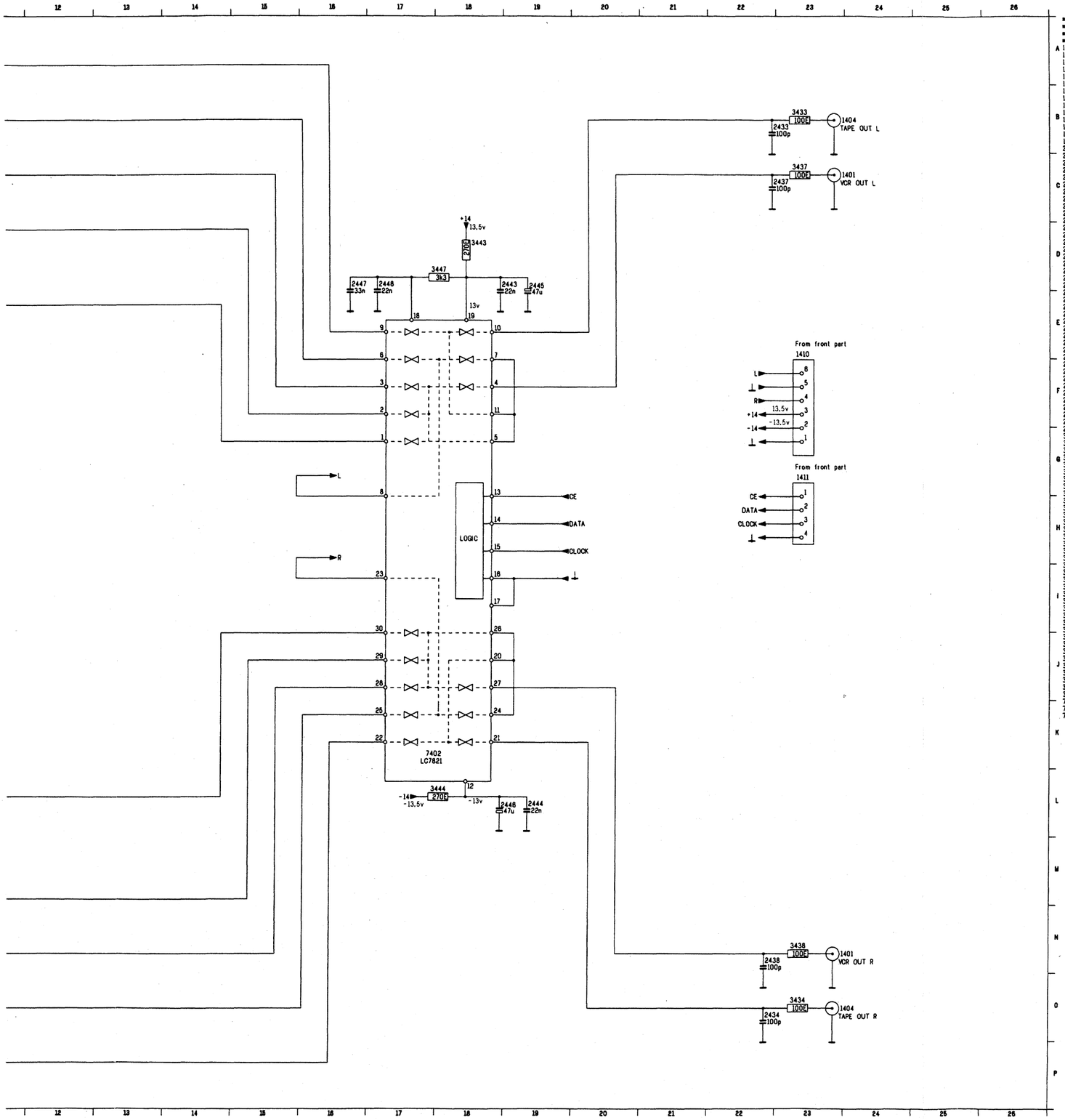
SK.... SWITCH	SIGNAL	TO	VOLUME	ADJUST	OSILLOSCOPE	D.C.METER INDICATOR
STAND - BY				L ch R 3285		L ch. (1) (2) DC 6 mV
				R ch. R 3286		R ch. (3) (4) DC 6 mV

- Check for good thermal contact between power transistor and heatsink.
- Mains Voltage 220V /00 240V /05 5%
- Ambient themperature =20° 5° and heatsink must be atambient temperature.
- Set volume position to minimum.
- Disconnect speakers or place the set on stand-by position.
- Trimpotmeter in clock wize position.
- The adjustment must be finished for both channels 20sec after power on.

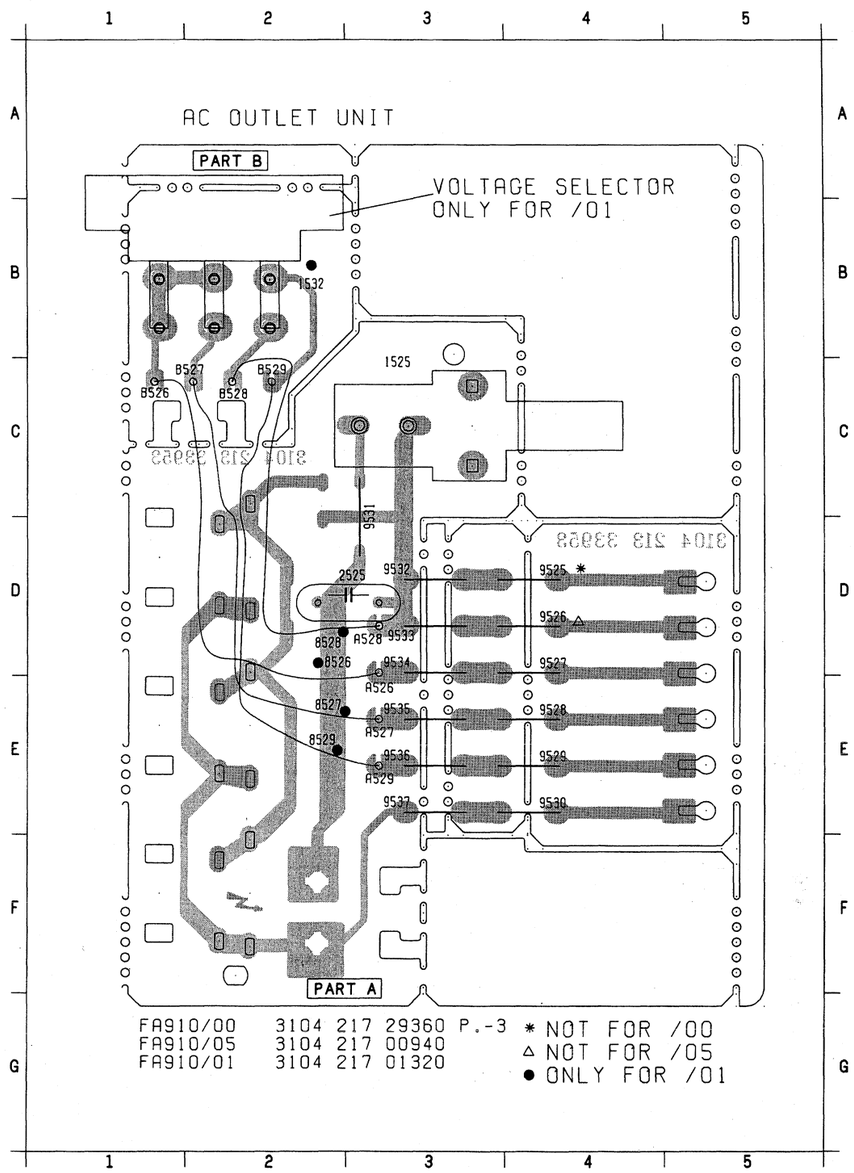

1001
POWER UNIT
1268
1267
1001
S 14
S 13
S 12
S 11
S 10
S 9
S 8
S 7
TRANSFORMER
5001
1 S
2 S
3 S
4 S
5 S
6 S
AC OUTLET UNIT
1003
S
S
MAINS CORD.
= MOLEX CONNECTOR
= DIPMATE
= JST
S = HANDSOLDERING
= WIRE BRIDGES BETWEEN PRINTED BOARDS
1266
L L ⊥ R R
1265
R ⊥ L ⊥EL EL RC5 POWER DOWN ST BY +5 ⊥ DIG +V ⊥ ANALOG -14 +14
8001
1701
1711
1004
HEADPHONES
IR EYE
1721
1722
+5
⊥
RC5 SIGNAL
ROTARY SELECTOR
1714
1720
⊥
+V
BI
BO
KNOB
FRONT UNIT
1004
1004
1004
1004
SELECTOR UNIT
1410
L
⊥
R
+14
-14
⊥
CE I
DATA
CLOCK
⊥
1411
8002
1702
1270
1269
1001
1712
⊥
-14
+14
R
⊥
L
LOUDNESS
⊥
VD = VOL.DOWN
VU = VOL.UP
+V
1713
L
⊥
R
+14
-14
⊥
1710
VOLUME UNIT
1004

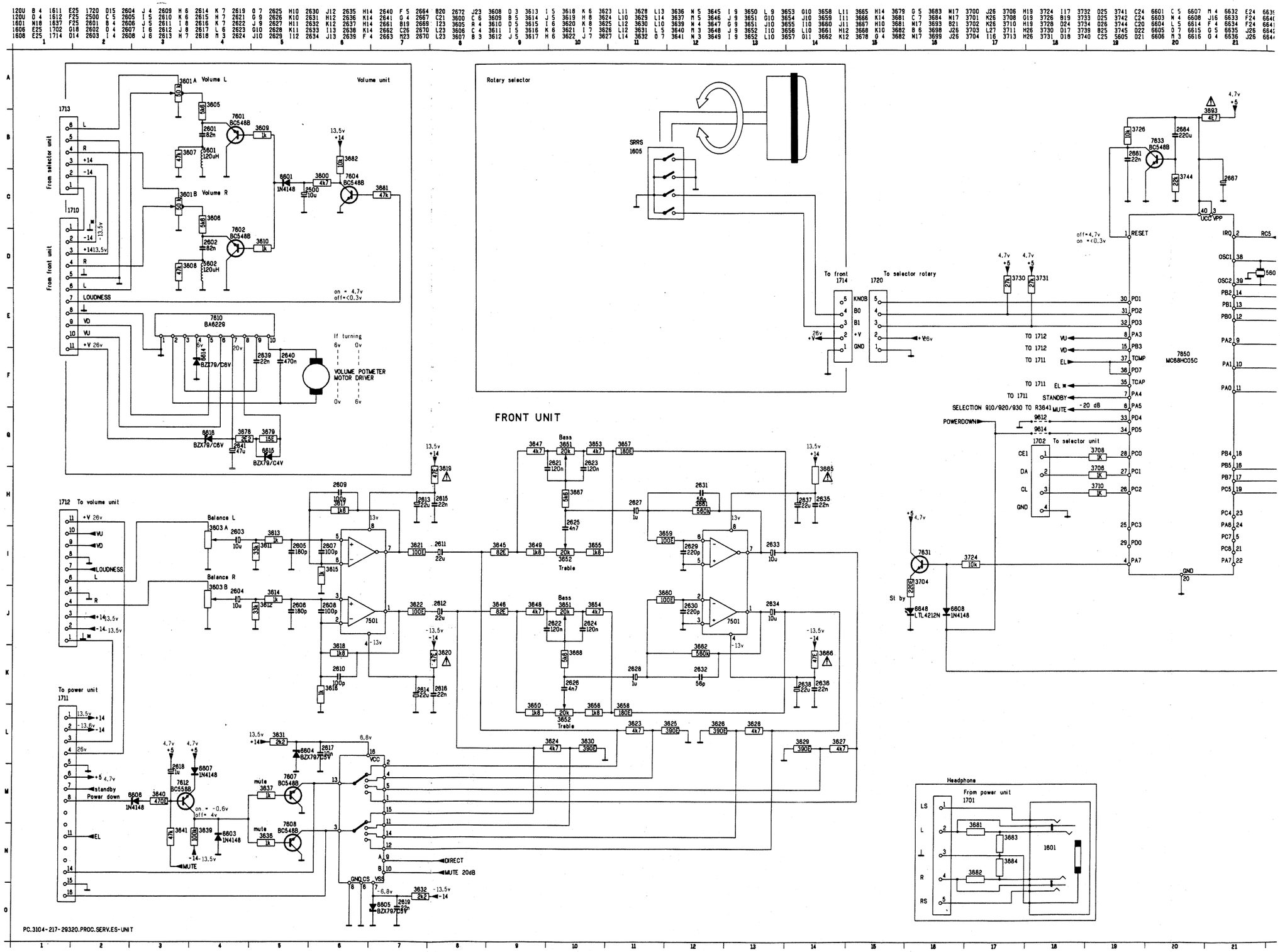
SELECTOR UNIT





▪▪▪▪	C23	1525	C	3
▪▪▪▪	N23	1532	B	2
▪▪▪▪	B23	1532	B	2
▪▪▪▪	Q23	2525	D	3
A 1401	D 4	8526	D	2
1401	C 4	8526	D	2
1401	M 4	8527	E	2
1401	N 4	8528	D	2
1401	L 4	8528	D	2
1401	N23	8529	E	2
1401	C23	9525	D	4
1401	D 4	9526	D	4
1404	A 4	9527	D	4
B 1404	B 4	9528	E	4
1404	P 4	9529	E	4
1404	Q 4	9530	E	4
1404	B23	9531	C	3
1404	Q23	9532	D	3
2401	E 4	9533	D	3
2402	L 4	9534	D	3
2403	E 6	9535	E	3
2404	L 6	9536	E	3
2405	D 5	9537	E	3
C 2406	L 5			
2407	E 7			
2408	L 7			
2409	F 6			
2410	M 6			
2411	E 7			
2412	L 7			
2413	E 8			
2414	L 8			
2415	E 8			
D 2416	L 8			
2417	E 9			
2418	L 9			
2419	D 8			
2420	K 8			
2421	D 8			
2422	K 8			
2431	A 5			
2432	P 5			
E 2433	B22			
2434	Q22			
2435	B 5			
2436	Q 5			
2437	C22			
2438	N22			
2439	C 5			
2440	M 5			
2441	D 5			
2442	M 5			
F 2443	D19			
2444	L19			
2445	Q19			
2446	L18			
2447	D16			
2448	D17			
3401	D 4			
3402	L 4			
3403	E 5			
G 3404	L 5			
3405	E 5			
3406	L 5			
3407	D 6			
3408	L 6			
3409	E 7			
3410	L 7			
3411	E 6			
3412	L 6			
3413	F 7			
H 3414	M 7			
3415	F 8			
3416	M 8			
3417	E 9			
3418	L 9			
3419	E 9			
3420	L 9			
3421	D 9			
3422	K 9			
I 3431	A 4			
3432	P 4			
3433	B23			
3434	Q23			
3435	B 4			
3436	Q 4			
3437	C23			
3438	N23			
3439	C 4			
J 3440	M 4			
3441	C 4			
3442	M 4			
3443	D18			
3444	L18			
3447	D18			
7401	L 8			
7401	E 8			
7402	K17			




Volume unit
Volume L
Volume R
From selector unit
From front unit
LOUDNESS
VOLUME POTMETER MOTOR DRIVER
If turning
Rotary selector
SRRS
To front 1714
To selector rotary 1720
7850 MC68HC05C
RESET
UCC VPP
FRONT UNIT
Bass
Treble
To volume unit 1712
To power unit 1711
Balance L
Balance R
DIRECT
MUTE 20dB
Headphone
From power unit 1701
To selector unit 1702
St by
PC.3104-217-29320.PROC.SERV.ES-UNIT

Rotary selector

SRRS 1605

To front 1714

To selector rotary 1720

KNOB
B0
B1
+V
GND

FRONT UNIT

Bass
Treble

DIRECT
MUTE 20dB

Headphone
From power unit 1701
LS
L
R
RS
3681
3683
3684
3682
1601

POWERDOWN
SELECTION 910/920/930 TO R3641
STANDBY
EL
EL M
VU
VD
MUTE
-20 dB
TO 1712
TO 1711
TO 1702 To selector unit
CE1
DA
CL
GND

7650
MC68HC05C

RESET
IRQ
RC5
OSC1
OSC2
PB2
PB1
PB0
PA2
PA1
PA0
PB4
PB5
PB7
PC5
PC4
PA6
PC7
PC6
PA7
PD1
PD2
PD3
PA3
PB3
TCMP
PD7
TCAP
PA4
PA5
PD4
PD5
PC0
PC1
PC2
PC3
PD0
VCC
GND

4MHz
5805
3745

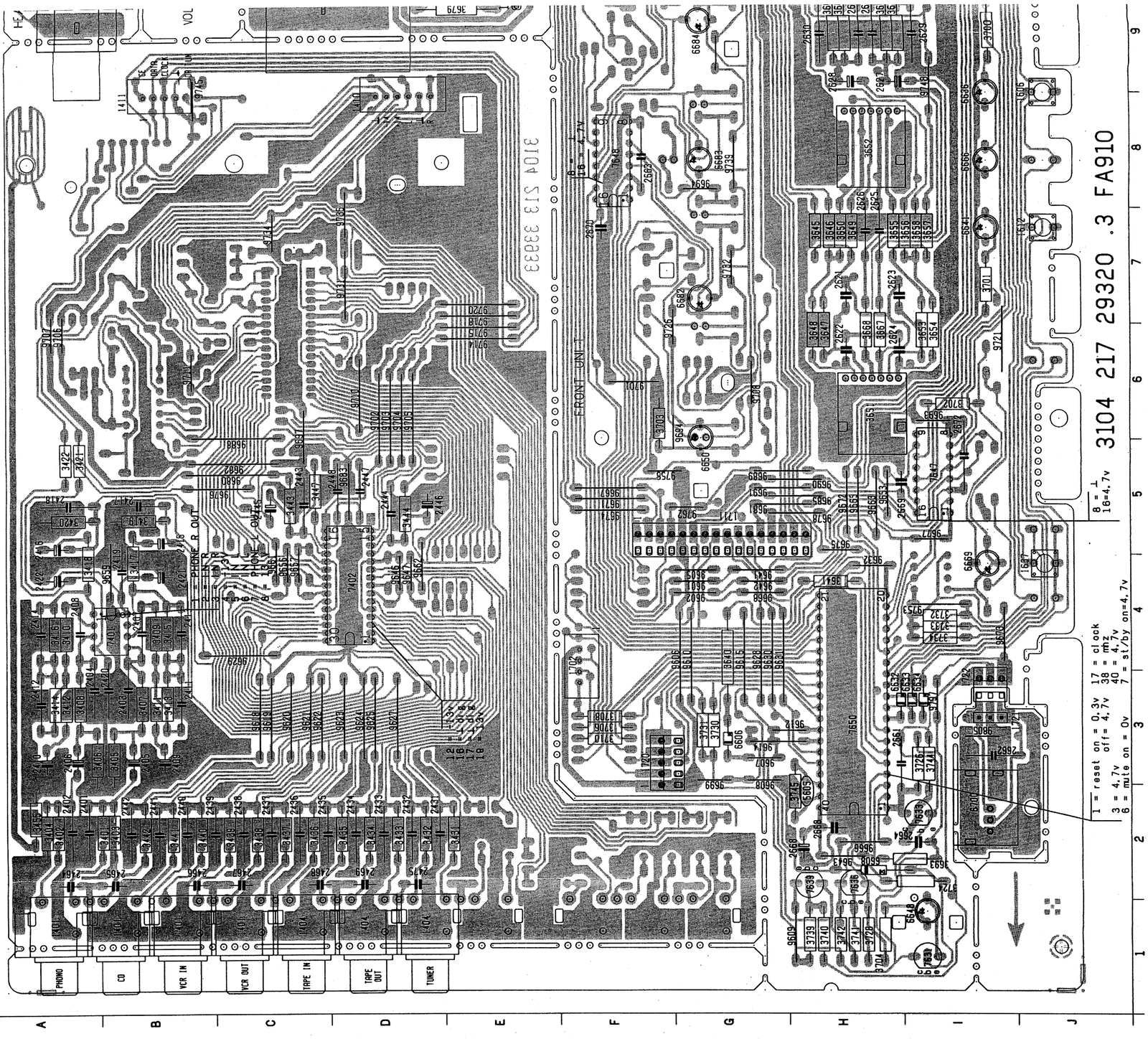
IR EYE
6700

1608 DIRECT
1637 ESI
1608 LOUDNESS
1611 MUTE
1612 MON

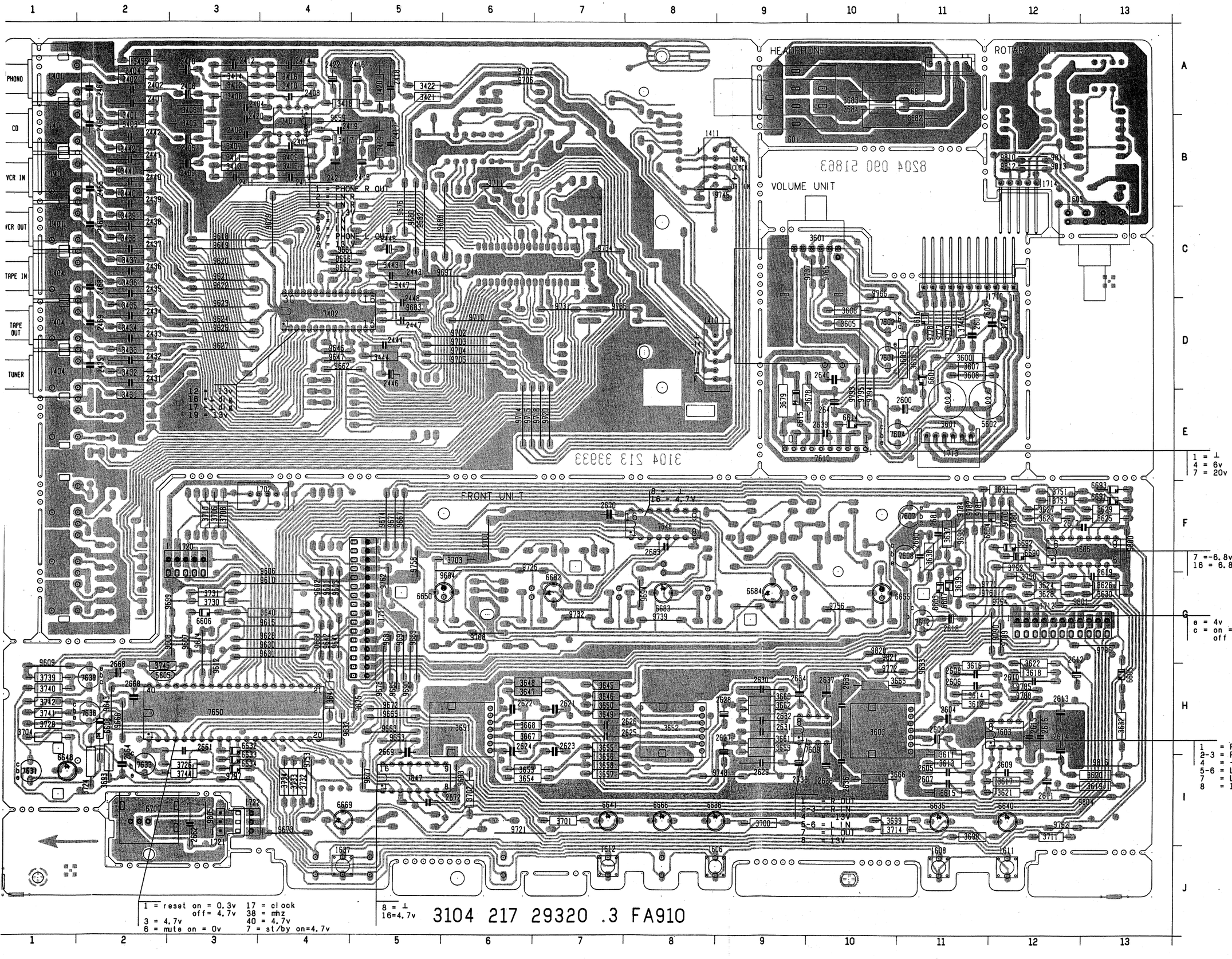
7647
PC74HC4094
7648
PC74HC4094
DIN
CLK
STR
OE
QS
QN

MUTE -20dB TO IC7605
LOUDNESS TO 1712
DIRECT TO IC7605
MUTE
LOUDNESS
DIRECT
MON
ESI
CD
TV/VCR
TUNER
PHONO
TAPE

St by
7631
7501
7633 BC548B
7636 BC548B
7639 BC558B
6648 LTL4212N
6608 1N4148
6632 1N4148
6633 1N4148
6634 1N4148
6640 LTL4212N
6635 LTL4212N
6636 LTL4212N
6641 LTL4212N
6639 LTL4212N
6642 LTL4212N
6644 LTL4212N
6645 LTL4212N
6646 LTL4212N
6647 LTL4212N


3104 217 29320 .3 FA910
PHONO
CD
VCR IN
VCR OUT
TAPE IN
TAPE OUT
TUNER
FRONT UNIT
1 = reset on = 0,3v off= 4,7v
3 = 4,7v
6 = mute on = 0v
17 = clock
38 = mhz
40 = 4,7v
7 = st/by on=4,7v
8 = 16=4,7v

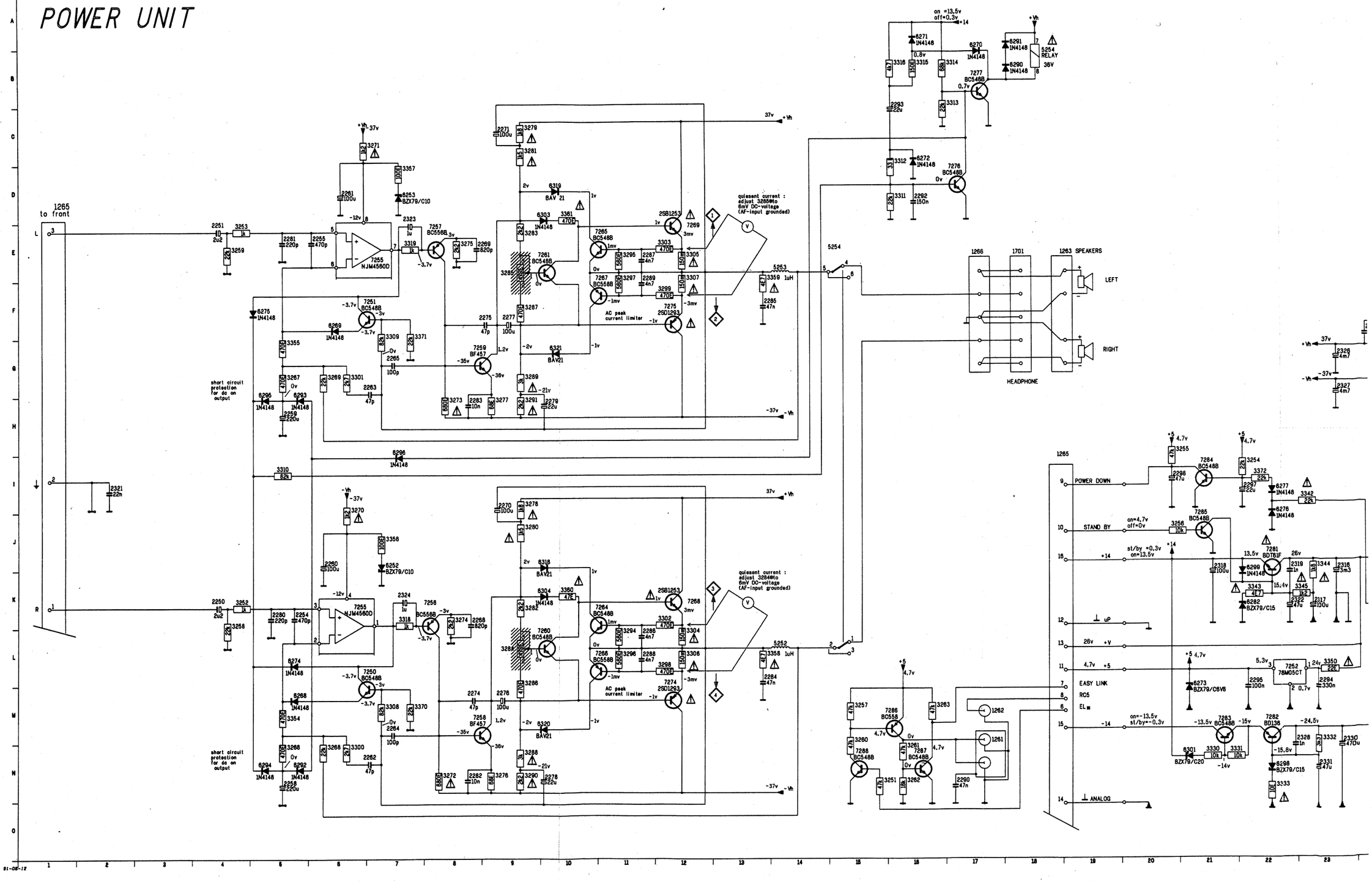
| | | |

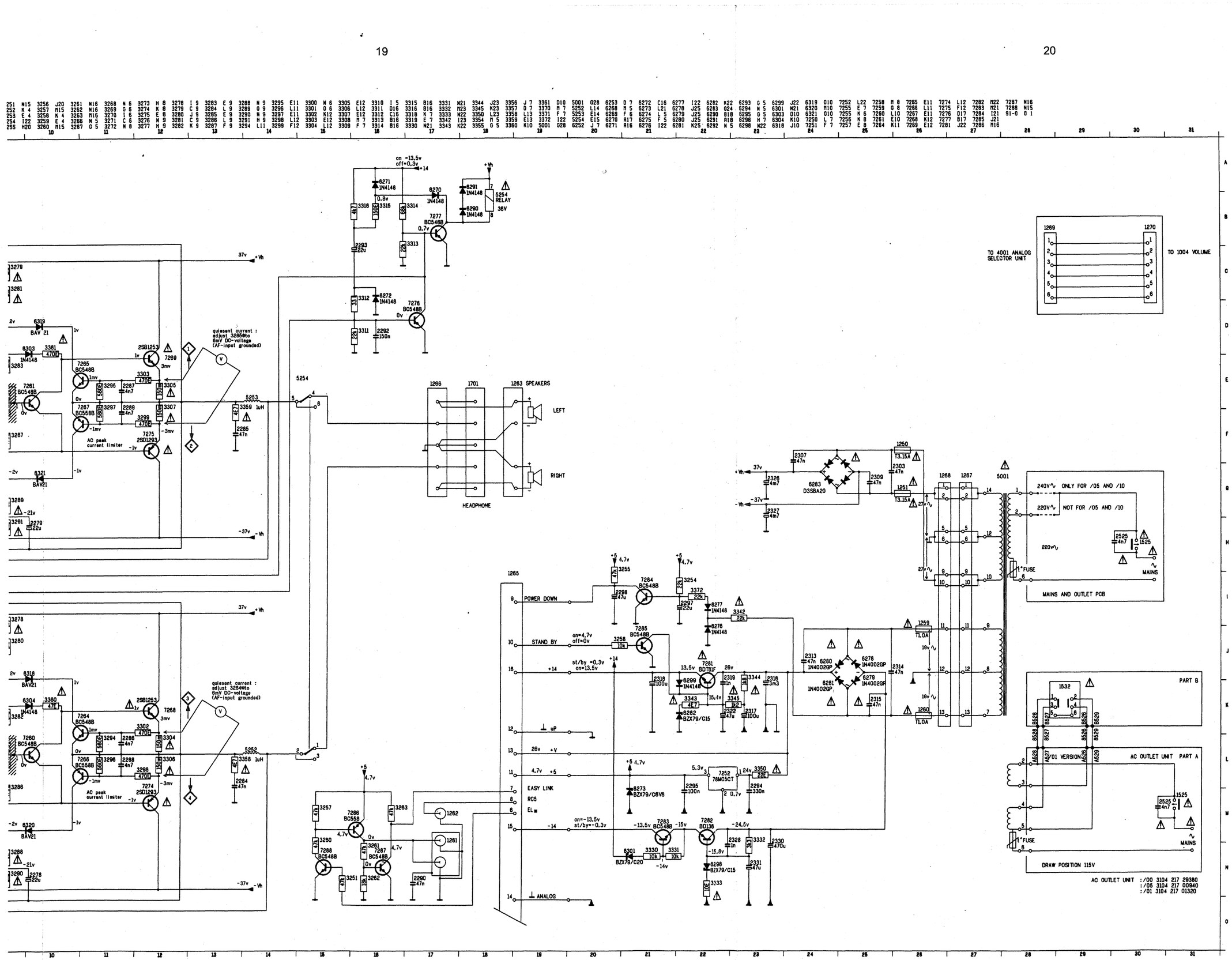


3104 217 29320 .3 FA910

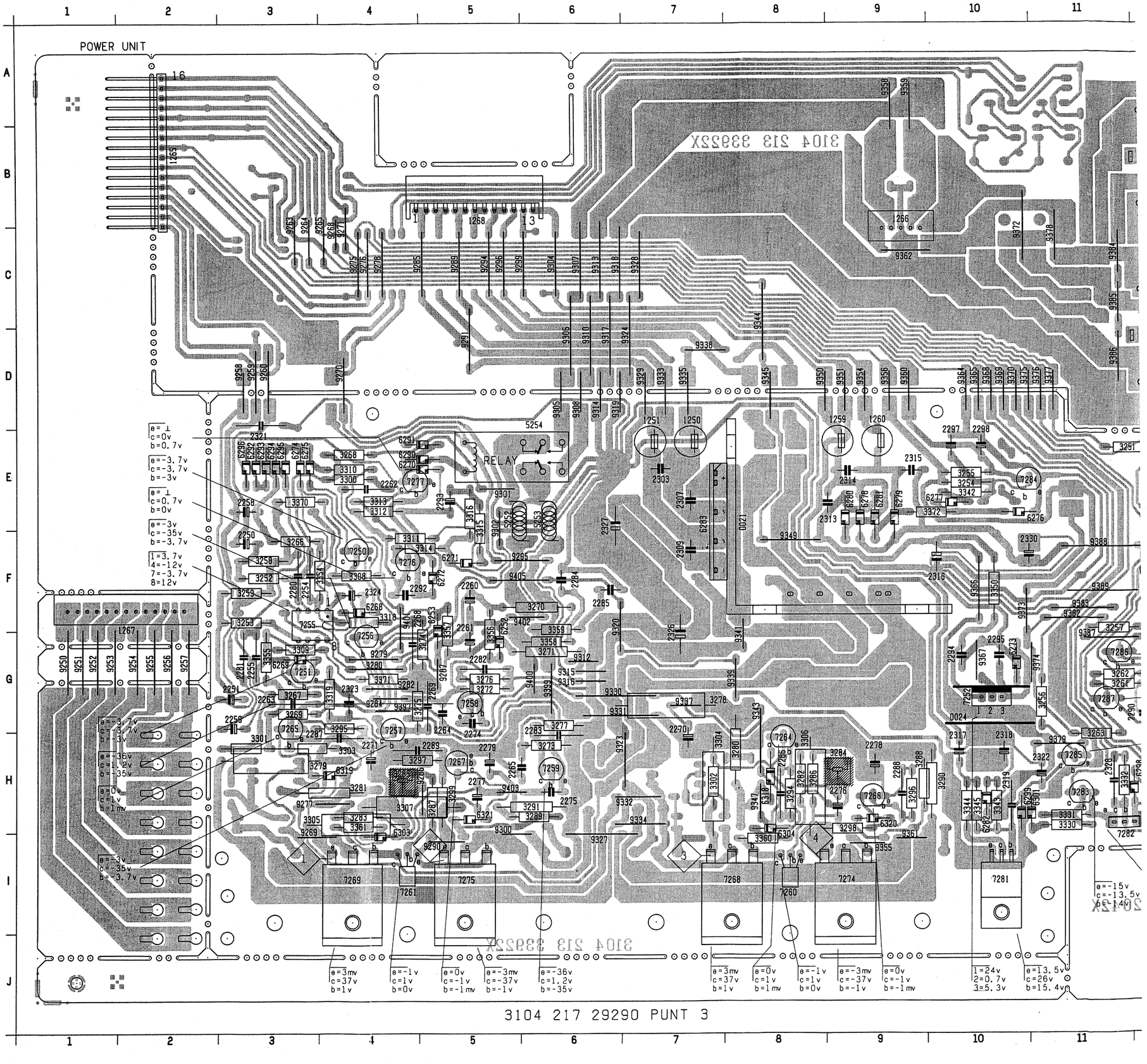
PCS 57 577

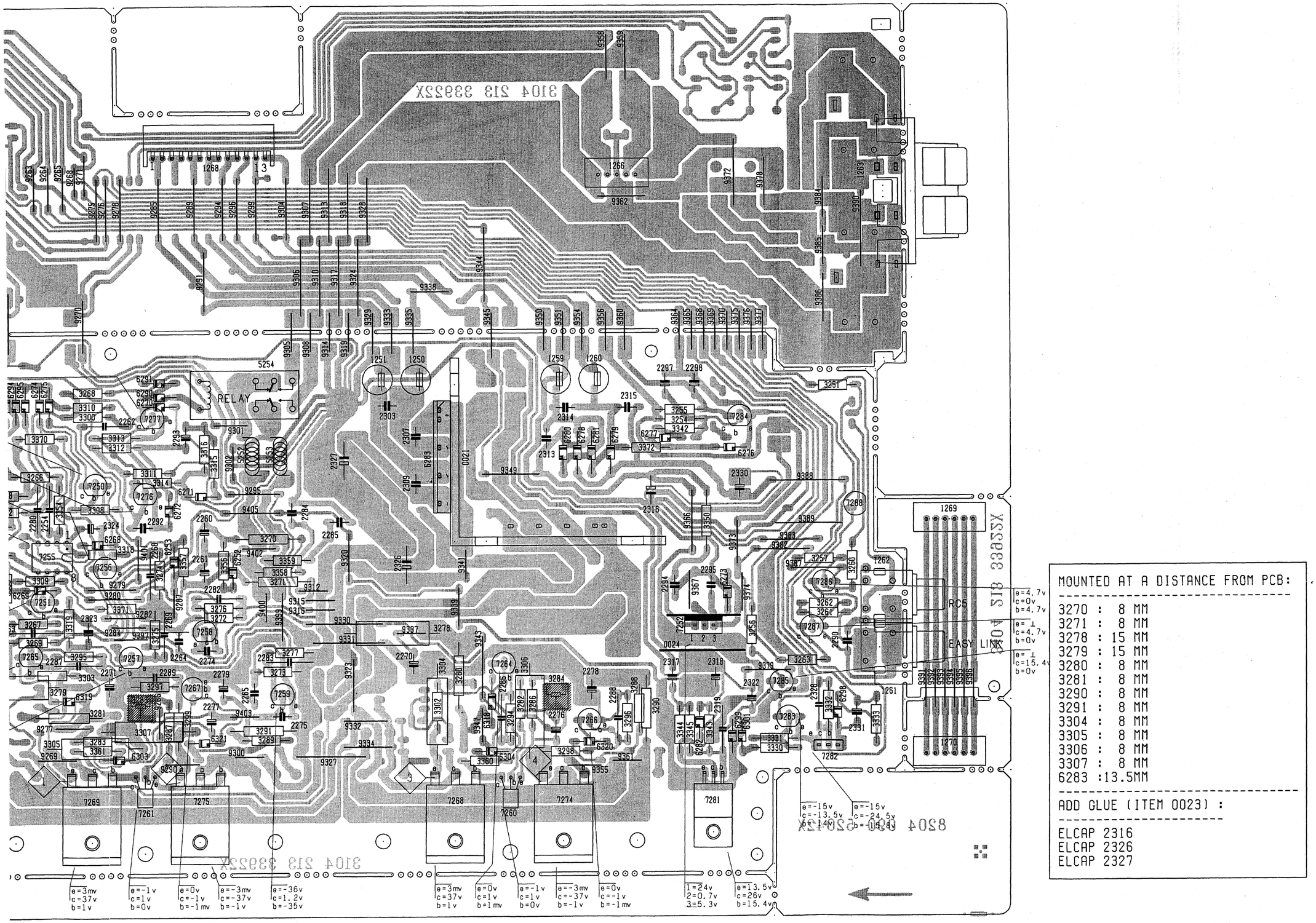
POWER UNIT


1265 to front
7255 NJM4560D
7256 NJM4560D
quiesent current : adjust 3286#to 6mV DC-voltage (AF-input grounded)
AC peak current limiter
short circuit protection for dc on output
2SB1253
2SD1293
BF457
BC548B
BC558B
BAV21
BZX79/C10
1N4148
1266
1701
1263 SPEAKERS
LEFT
RIGHT
HEADPHONE
5254 RELAY 36V
1265
POWER DOWN
STAND BY
EASY LINK
RC5
EL
uP
ANALOG
78M05CT
BD136
BD138F
BZX79/C6V8
BZX79/C20
BZX79/C15


on =13.5v off=0.3v
+14
+Vh
6271 1N4148
6270 1N4148
6291 1N4148
6290 1N4148
5254 RELAY
36V
0.8v
7277 BC548B
0.7v
7276 BC548B
0v
6272 1N4148
quiesent current : adjust 3286Ko 6mV DC-voltage (AF-input grounded)
AC peak current limiter
7265 BC548B
7267 BC558B
7275 2SD1293
7269 2SB1253
6319 BAV 21
6321 BAV21
5254
5253 1uH
3359
2286 47n
1266
1701
1263 SPEAKERS
LEFT
RIGHT
HEADPHONE
1285
POWER DOWN
STAND BY
on=4,7v off=0v
st/by =0,3v on=13,5v
uP
26v +V
4,7v +5
EASY LINK
RC5
EL■
ANALOG
on=-13,5v st/by=-0,3v
7284 BC548B
7285 BC548B
7281 BDT81F
7283 BC548B
7282 BD136
7286 BC558
7287 BC548B
7288 BC548B
6273 BZX79/C8V8
6299 1N4148
6282 BZX79/C15
6301 BZX79/C20
6298 BZX79/C15
7252 78M05CT
6283 D3SBA20
6278 1N4002GP
6279 1N4002GP
6280 1N4002GP
6281 1N4002GP
1250 T3.15A
1251 T3.15A
1259 T1.0A
1260 T1.0A
5001
240V~ ONLY FOR /05 AND /10
220V~ NOT FOR /05 AND /10
220V~
1*FUSE
MAINS
MAINS AND OUTLET PCB
1269
1270
TO 4001 ANALOG SELECTOR UNIT
TO 1004 VOLUME
PART B
1532
AC OUTLET UNIT PART A
/01 VERSION
DRAW POSITION 115V
AC OUTLET UNIT :/00 3104 217 29360
:/05 3104 217 00940
:/01 3104 217 01320

0021	E 8	3288	H 9	7283	H11	9385	C11
0024	G10	3289	H 6	7284	E10	9386	D11
1250	D 7	3290	H10	7285	H11	9387	G11
1251	D 7	3291	H 6	7286	G11	9388	F11
1259	D 9	3294	H 8	7287	G11	9389	F11
1260	D 9	3295	G 4	7288	F12	9390	C12
1261	H12	3296	H 9	9250	G 1	9391	H12
1262	G12	3297	H 4	9251	G 1	9392	H12
1263	B12	3298	H 9	9252	G 1	9393	H13
1265	B 2	3299	H 5	9253	G 1	9394	H13
1266	B 9	3300	E 4	9254	G 2	9395	H13
1267	G 2	3301	H 3	9255	G 2	9396	H13
1268	B 5	3302	H 7	9256	G 2	9397	G 4
1269	F13	3303	H 4	9257	G 2	9399	G 6
1270	H13	3304	H 7	9258	D 3	9400	G 6
2250	F 3	3305	H 3	9259	D 3	9401	F 4
2251	G 3	3306	H 8	9260	D 3	9402	F 6
2254	F 3	3307	H 4	9263	B 3	9403	H 5
2255	G 3	3308	F 4	9264	B 3	9405	F 5
2258	E 3	3309	G 3	9265	B 4		
2259	G 3	3310	E 4	9268	C 4		
2260	F 5	3311	F 4	9269	I 3		
2261	F 5	3312	E 4	9270	D 4		
2262	E 4	3313	E 4	9271	C 4		
2263	G 3	3314	F 5	9275	C 4		
2264	H 5	3315	E 5	9276	C 4		
2265	H 5	3316	E 5	9277	H 3		
2268	F 4	3318	F 4	9278	C 4		
2269	G 5	3319	G 4	9279	G 4		
2270	H 7	3330	H11	9280	G 4		
2271	H 4	3331	H11	9282	G 4		
2274	H 5	3332	H11	9284	G 4		
2275	H 6	3333	H12	9285	C 5		
2276	H 9	3342	E10	9286	H 5		
2277	H 5	3343	H10	9287	G 5		
2278	H 9	3344	H10	9289	C 5		
2279	H 5	3345	H10	9290	I 5		
2280	F 3	3350	F10	9291	D 5		
2281	G 3	3354	F 4	9294	C 5		
2282	G 5	3355	G 3	9295	F 5		
2283	H 6	3356	G 5	9296	C 5		
2284	F 6	3357	F 5	9299	C 6		
2285	F 6	3358	G 6	9300	I 5		
2286	H 8	3359	G 6	9301	E 5		
2287	H 3	3360	I 8	9302	E 5		
2288	H 9	3361	H 4	9304	C 6		
2289	H 5	3370	E 3	9305	D 6		
2290	G12	3371	G 4	9306	D 6		
2292	F 4	3372	E10	9307	C 6		
2293	E 5	5252	E 5	9308	D 6		
2294	G10	5253	E 6	9310	D 6		
2295	G10	5254	D 6	9312	G 6		
2297	E10	6252	F 5	9313	C 6		
2298	E10	6253	F 5	9314	D 6		
2303	E 7	6268	F 4	9315	G 6		
2307	E 7	6269	G 3	9316	G 6		
2309	F 7	6270	E 4	9317	D 6		
2313	E 9	6271	F 5	9318	C 6		
2314	E 9	6272	F 5	9319	D 6		
2315	E 9	6273	G10	9320	F 6		
2316	F10	6274	E 3	9323	H 6		
2317	H10	6275	E 3	9324	D 7		
2318	H10	6276	E11	9327	I 6		
2319	H10	6277	E10	9328	C 7		
2321	E 3	6278	E 9	9329	D 7		
2322	H11	6279	E 9	9330	G 6		
2323	G 4	6280	E 9	9331	G 6		
2324	F 4	6281	E 9	9332	H 7		
2326	G 7	6282	H10	9333	D 7		
2327	E 6	6283	E 7	9334	H 7		
2328	H11	6290	E 4	9335	D 7		
2330	F10	6291	E 4	9337	G 7		
2331	H12	6292	E 3	9338	D 7		
3251	E11	6293	E 3	9339	G 8		
3252	F 3	6294	E 3	9341	G 8		
3253	F 3	6295	E 3	9343	G 8		
3254	E10	6296	E 3	9344	C 8		
3255	E10	6298	H12	9345	D 8		
3256	G11	6299	H10	9347	H 8		
3257	G11	6301	H11	9349	F 8		
3258	F 3	6303	I 4	9350	D 8		
3259	F 3	6304	I 8	9351	D 9		
3260	G12	6318	H 8	9354	D 9		
3261	G11	6319	H 4	9355	I 9		
3262	G11	6320	H 9	9356	D 9		
3263	H11	6321	H 5	9358	A 9		
3266	F 3	7250	F 4	9359	A 9		
3267	G 3	7251	G 3	9360	D 9		
3268	E 4	7252	G10	9361	I 9		
3269	G 3	7255	F 3	9362	C 9		
3270	F 6	7256	G 4	9364	D10		
3271	G 6	7257	H 4	9365	D10		
3272	G 5	7258	G 5	9366	F10		
3273	H 6	7259	H 6	9367	G10		
3274	G 5	7260	I 8	9368	D10		
3275	G 5	7261	I 4	9369	D10		
3276	G 5	7264	H 8	9370	D10		
3277	G 6	7265	G 3	9372	C10		
3278	G 7	7266	H 9	9373	F10		
3279	H 3	7267	H 5	9374	G11		
3280	H 8	7268	I 8	9375	D10		
3281	H 4	7269	I 4	9376	D11		
3282	H 8	7274	I 9	9377	D11		
3283	H 4	7275	I 5	9378	C11		
3284	H 9	7276	F 4	9379	H11		
3285	H 4	7277	E 4	9382	F11		
3286	H 8	7281	I10	9383	F11		
3287	H 5	7282	I11	9384	C11		





MOUNTED AT A DISTANCE FROM PCB:

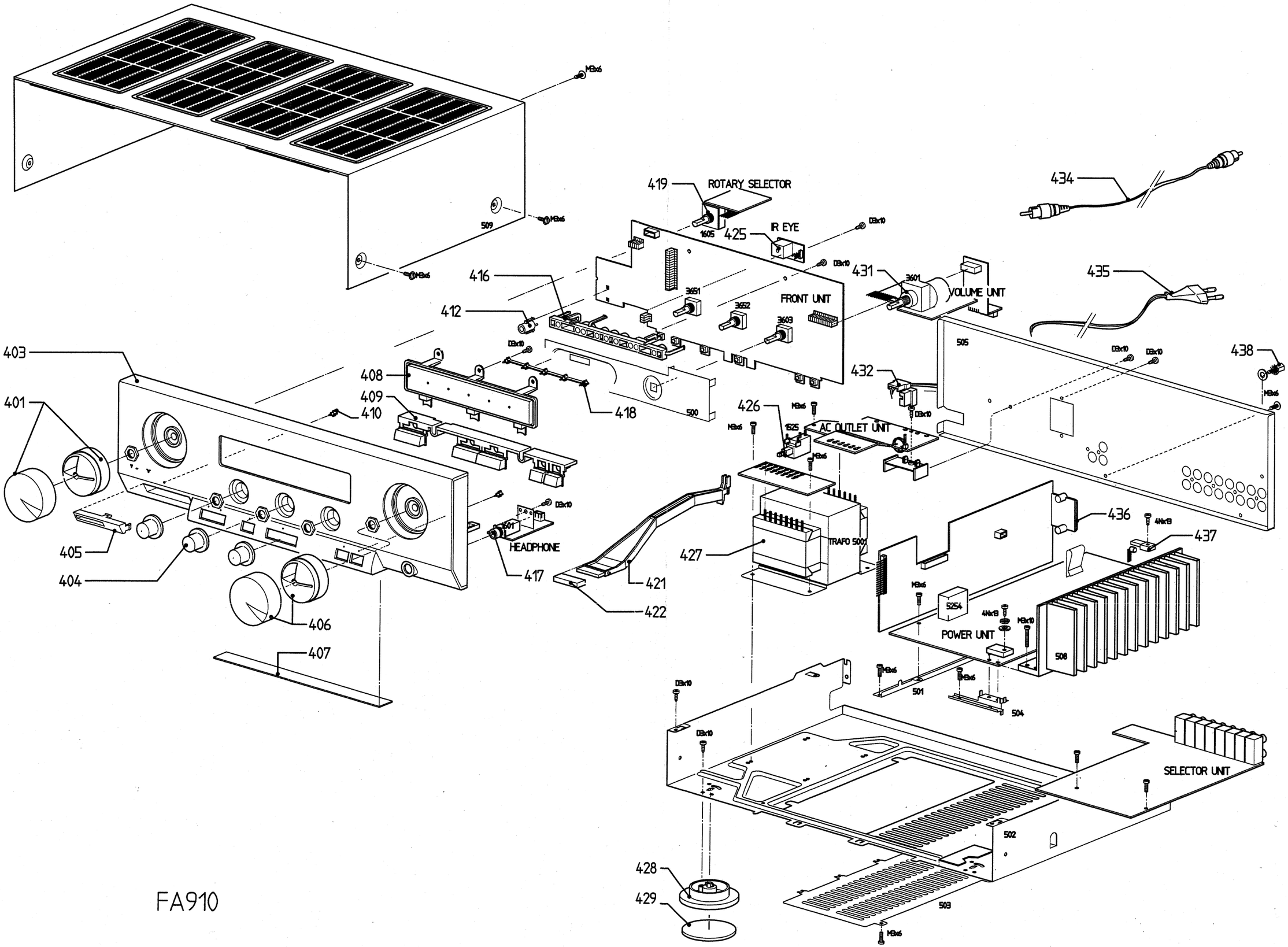
3270	8 MM
3271	8 MM
3278	15 MM
3279	15 MM
3280	8 MM
3281	8 MM
3290	8 MM
3291	8 MM
3304	8 MM
3305	8 MM
3306	8 MM
3307	8 MM
6283	13.5MM

ADD GLUE (ITEM 0023) :

ELCAP 2316
ELCAP 2326
ELCAP 2327

MECHANICAL PARTS

401	4822 413 41711	KNOB SOURCE SELECTOR
403	4822 423 51114	FRONT ASSY
404	4822 413 41696	KNOB
405	4822 450 61831	IR-WINDOW
406	4822 410 61717	KNOB VOLUME
407	4822 426 60621	STRIP
408	4822 454 12817	PLATE ORNAMENTAL
409	4822 410 61841	BUTTON ASSY
410	4822 380 20425	LED REFLECTOR
412	4822 255 41247	SOCKET LED
416	4822 255 30217	LED HOLDER
417	4822 267 31479	HEADPHONE SOCKET
418	4822 380 20429	REFLECTOR
419	4822 273 10237	ROTARY SWITCH
421	4822 404 21194	POWER ROD
422	4822 462 71808	POWER CAP
425	4822 130 81254	IR-EYE
426	4822 276 13231	POWER SWITCH
427	4822 146 31106	MAINS TRAFO /01
427	4822 146 31083	MAINS TRAFO
428	4822 462 41888	FOOT
429	4822 462 41887	FOOT FELT
431	4822 101 21175	POT.50k+MOTOR
432	4822 532 60948	BUSHING
434	4822 321 61478	CINCH CORD
435	4822 321 10789	MAINS CORD
436	4822 267 31481	LS CONNECTOR
437	4822 404 21195	TRANSISTOR BRACKET
438	4822 502 13921	PHONE GND SCREW
	4822 218 10451	REMOTE CONTROL RH6840/01
	4822 736 21386	IFU FA910


M3x6
509
419
ROTARY SELECTOR
1605
425
IR EYE
D3x10
416
412
3651
3652
3603
FRONT UNIT
431
3601
VOLUME UNIT
434
435
505
438
403
401
408
409
410
418
500
426
M3x6
1525
AC OUTLET UNIT
432
D3x10
436
4Nx8
437
TRAFO 5001
427
5254
4Nx8
M3x10
POWER UNIT
508
501
504
405
404
406
407
HEADPHONE
5001
417
421
422
D3x10
SELECTOR UNIT
502
503
428
429

FA910

MISCELLANEOUS

1250	4822 071 53152	FUSE 3.15A
1251	4822 071 53152	FUSE 3.15A
1259	4822 071 51002	FUSE 1A
1260	4822 071 51002	FUSE 1A
1261	4822 265 20542	PIN JACK
1262	4822 265 20543	PIN JACK
1263	4822 267 31481	LS CONNECTOR
1401	4822 267 31451	PIN JACK
1404	4822 267 31449	PIN JACK
1525	4822 276 13231	POWER SWITCH
1532	4822 272 10315	VOLT.SELECTOR/01
1601	4822 267 31479	HEADPHONE SOCKET
1605	4822 273 10237	ROTARY SWITCH
1606	4822 276 13213	TACT SWITCH
1608	4822 276 13213	TACT SWITCH
1611	4822 276 13213	TACT SWITCH
1612	4822 276 13213	TACT SWITCH
1637	4822 276 13213	TACT SWITCH

CAPACITORS

2250	4822 124 40244	2,2µF 20% 63V
2251	4822 124 40244	2,2µF 20% 63V
2254	4822 122 31435	470pF 10% 50V
2255	4822 122 31435	470pF 10% 50V
2258	4822 124 40196	220µF 20% 16V
2259	4822 124 40196	220µF 20% 16V
2260	4822 124 41643	100µF 20% 16V
2261	4822 124 41643	100µF 20% 16V
2262	4822 122 10181	47pF 5% 50V
2263	4822 122 10181	47pF 5% 50V
2264	4822 122 33308	100pF 10% 500V
2265	4822 122 33308	100pF 10% 500V
2268	4822 122 10173	820pF 10% 50V
2269	4822 122 10173	820pF 10% 50V
2270	4822 124 40255	100µF 50% 63V
2271	4822 124 40255	100µF 50% 63V
2274	4822 126 12017	47pF NPO 500V
2275	4822 126 12017	47pF NPO 500V
2276	4822 124 41584	100µF 20% 10V
2277	4822 124 41584	100µF 20% 10V
2278	4822 124 41596	22µF 20% 50V
2279	4822 124 41596	22µF 20% 50V
2280	4822 122 10172	220pF 10% 50V
2281	4822 122 10172	220pF 10% 50V
2282	4822 122 10177	10nF 20% 25V
2283	4822 122 10177	10nF 20% 25V
2284	4822 121 41984	47nF 10% 400V
2285	4822 121 41984	47nF 10% 400V
2286	4822 126 11311	4,7nF 50V
2287	4822 126 11311	4,7nF 50V
2288	4822 126 11311	4,7nF 50V
2289	4822 126 11311	4,7nF 50V
2290	4822 121 43526	47nF 5% 100V
2292	4822 121 41854	150nF 5% 63V
2293	5322 124 41431	22µF 20% 35V
2294	5322 121 42661	330nF 5% 63V
2295	5322 121 42386	100nF 5% 63V
2297	5322 124 41431	22µF 20% 35V
2298	4822 124 40244	2,2µF 20% 63V
2303	4822 121 43875	47nF 5% 250V
2307	4822 121 43875	47nF 5% 250V
2309	4822 121 43875	47nF 5% 250V
2313	4822 121 41984	47nF 10% 400V
2314	4822 121 41984	47nF 10% 400V
2315	4822 121 41984	47nF 10% 400V
2316	4822 124 42367	3300µF 20% 35V
2317	5322 124 21189	100µF 20% 40V
2318	5322 124 21189	100µF 20% 40V
2319	4822 122 10158	1nF 10% 50V
2321	4822 122 10166	22nF 30% 16V
2322	4822 124 40433	47µF 20% 25V
2323	4822 124 40242	1µF 20% 63V
2324	4822 124 40242	1µF 20% 63V
2326	4822 124 42117	4700µF 20% 50V
2327	4822 124 42117	4700µF 20% 50V
2328	4822 122 10158	1nF 10% 50V
2330	4822 124 41334	470µF 20% 35V
2331	4822 124 40433	47µF 20% 25V
2401	4822 122 10183	100pF 5% 50V
2402	4822 122 10183	100pF 5% 50V
2403	4822 122 10183	100pF 5% 50V
2404	4822 122 10183	100pF 5% 50V
2405	4822 124 40242	1µF 20% 63V
2406	4822 124 40242	1µF 20% 63V
2407	4822 122 10158	1nF 10% 50V
2408	4822 122 10158	1nF 10% 50V
2409	4822 124 21212	15µF 20% 40V
2410	4822 124 21212	15µF 20% 40V
2411	4822 122 10177	10nF 20% 25V
2412	4822 122 10177	10nF 20% 25V
2413	4822 126 11309	2,7nF 10%Y5F 50V
2414	4822 126 11309	2,7nF 10%Y5F 50V
2415	4822 124 40435	10µF 20% 50V
2416	4822 124 40435	10µF 20% 50V
2417	4822 122 10183	100pF 5% 50V
2418	4822 122 10183	100pF 5% 50V
2419	4822 122 10166	22nF 30% 16V
2420	4822 122 10166	22nF 30% 16V
2421	4822 124 22427	47µF 20% 35V
2422	4822 124 40433	47µF 20% 25V
2431	4822 122 10183	100pF 5% 50V
2432	4822 122 10183	100pF 5% 50V
2433	4822 122 10183	100pF 5% 50V

2434	4822 122 10183	100pF 5% 50V
2435	4822 122 10183	100pF 5% 50V
2436	4822 122 10183	100pF 5% 50V
2437	4822 122 10183	100pF 5% 50V
2438	4822 122 10183	100pF 5% 50V
2439	4822 122 10183	100pF 5% 50V
2440	4822 122 10183	100pF 5% 50V
2441	4822 122 10183	100pF 5% 50V
2442	4822 122 10183	100pF 5% 50V
2443	4822 122 10166	22nF 30% 16V
2444	4822 122 10166	22nF 30% 16V
2445	4822 124 22427	47µF 20% 35V
2446	4822 124 40433	47µF 20% 25V
2447	4822 126 10003	33nF 30% 50V
2448	4822 122 10166	22nF 30% 16V
2464	4822 126 11005	4,7nF 20% 50V
2465	4822 126 11005	4,7nF 20% 50V
2466	4822 126 11005	4,7nF 20% 50V
2467	4822 126 11005	4,7nF 20% 50V
2468	4822 126 11005	4,7nF 20% 50V
2469	4822 126 11005	4,7nF 20% 50V
2475	4822 126 11005	4,7nF 20% 50V
2600	4822 124 40435	10µF 20% 50V
2601	4822 121 41754	82nF 10% 100V
2602	4822 121 41754	82nF 10% 100V
2603	4822 124 23179	10µF 20% 16V
2604	4822 124 23179	10µF 20% 16V
2605	4822 122 10171	180pF 10% 50V
2606	4822 122 10171	180pF 10% 50V
2607	4822 122 10183	100pF 5% 50V
2608	4822 122 10183	100pF 5% 50V
2609	4822 122 10183	100pF 5% 50V
2610	4822 122 10183	100pF 5% 50V
2611	4822 124 23176	22µF 20% 16V
2612	4822 124 23176	22µF 20% 16V
2613	4822 124 42368	22µF 35V
2614	4822 124 42368	22µF 35V
2615	4822 122 10166	22nF 30% 16V
2616	4822 122 10166	22nF 30% 16V
2617	4822 122 10177	10nF 20% 25V
2618	4822 124 40242	1µF 20% 63V
2619	4822 122 10177	10nF 20% 25V
2621	4822 121 51409	120nF 5% 63V
2622	4822 121 51409	120nF 5% 63V
2623	4822 121 51409	120nF 5% 63V
2624	4822 121 51409	120nF 5% 63V
2625	4822 126 11311	4,7nF 50V
2626	4822 126 11311	4,7nF 50V
2627	4822 124 41969	1µF 20% 50V
2628	4822 124 41969	1µF 20% 50V
2629	4822 122 10183	100pF 5% 50V
2630	4822 122 10183	100pF 5% 50V
2631	4822 122 33997	56pF 5%NPO
2632	4822 122 33997	56pF 5%NPO
2633	4822 124 23176	22µF 20% 16V
2634	4822 124 23176	22µF 20% 16V
2635	4822 122 10166	22nF 30% 16V
2636	4822 122 10166	22nF 30% 16V
2637	4822 124 42368	22µF 35V
2638	4822 124 42368	22µF 35V
2639	4822 126 12018	22nF 30% 16V
2640	4822 121 42408	220nF 5% 63V
2641	4822 124 22347	
2661	4822 122 10166	22nF 30% 16V
2662	4822 122 10166	22nF 30% 16V
2663	4822 126 11311	4,7nF 50V
2664	4822 121 42408	220nF 5% 63V
2667	4822 124 23176	22µF 20% 16V
2668	4822 121 51412	560nF 10% 63V
2669	5322 121 42498	680nF 5% 63V
2670	5322 121 42498	680nF 5% 63V
2672	4822 126 11311	4,7nF 50V
2680	4822 122 10177	10nF 20% 25V
2681	4822 122 10177	10nF 20% 25V

RESISTORS

3251	4822 050 24703	47k 1% 0,6W
3252	4822 050 21002	1k 1% 0,6W
3253	4822 050 21002	1k 1% 0,6W
3254	4822 050 22203	22k 1% 0,6W
3255	4822 050 24703	47k 1% 0,6W
3256	4822 050 21003	10k 1% 0,6W
3257	4822 050 24703	47k 1% 0,6W
3258	4822 050 22203	22k 1% 0,6W
3259	4822 050 22203	22k 1% 0,6W
3260	4822 050 24703	47k 1% 0,6W
3261	4822 050 24703	47k 1% 0,6W
3262	4822 050 21803	18k 1% 0,6W
3263	4822 050 24703	47k 1% 0,6W
3266	4822 116 52224	470Ω 5% 0,5W
3267	4822 116 52224	470Ω 5% 0,5W
3268	4822 050 22203	22k 1% 0,6W
3269	4822 050 22203	22k 1% 0,6W
3270	4822 053 10122	1k2 5% 1W
3271	4822 053 10122	1k2 5% 1W
3272	4822 052 10681	680Ω 5% 0,33W
3273	4822 052 10681	680Ω 5% 0,33W
3274	4822 050 22202	2k2 1% 0,6W
3275	4822 050 22202	2k2 1% 0,6W
3276	4822 050 16809	68Ω 1% 0,4W
3277	4822 050 16809	68Ω 1% 0,4W
3278	4822 053 12182	1k8 5% 3W
3279	4822 053 12182	1k8 5% 3W
3280	4822 053 10152	1k5 5% 1W
3281	4822 053 10152	1k5 5% 1W
3282	4822 050 22202	2k2 1% 0,6W

3283	4822 050 22202	2k2 1% 0,6W
3284	4822 101 10927	470Ω
3285	4822 101 10927	470Ω
3286	4822 116 52224	470Ω 5% 0,5W
3287	4822 116 52224	470Ω 5% 0,5W
3288	4822 050 23302	3k3 1% 0,6W
3289	4822 050 23302	3k3 1% 0,6W
3290	4822 053 10272	2k7 5% 1W
3291	4822 053 10272	2k7 5% 1W
3294	4822 051 10561	560Ω 2% 0,25W
3295	4822 051 10561	560Ω 2% 0,25W
3296	4822 051 10561	560Ω 2% 0,25W
3297	4822 051 10561	560Ω 2% 0,25W
3298	4822 116 52224	470Ω 5% 0,5W
3299	4822 116 52224	470Ω 5% 0,5W
3300	4822 116 52263	2k7 5% 0,5W
3301	4822 116 52263	2k7 5% 0,5W
3302	4822 116 52224	470Ω 5% 0,5W
3303	4822 116 52224	470Ω 5% 0,5W
3304	4822 113 80525	OR15 10% 3W
3305	4822 113 80525	OR15 10% 3W
3306	4822 113 80525	OR15 10% 3W
3307	4822 113 80525	OR15 10% 3W
3308	4822 050 28203	82k 1% 0,6W
3309	4822 050 28203	82k 1% 0,6W
3310	4822 050 28203	82k 1% 0,6W
3311	4822 050 22203	22k 1% 0,6W
3312	4822 050 13303	33k 1% 0,4W
3313	4822 050 22203	22k 1% 0,6W
3314	4822 050 26803	68k 1% 0,6W
3315	4822 050 21501	150Ω 1% 0,6W
3316	4822 050 24702	4k7 1% 0,6W
3318	4822 050 21002	1k 1% 0,6W
3319	4822 050 21002	1k 1% 0,6W
3330	4822 050 21003	10k 1% 0,6W
3331	4822 050 21003	10k 1% 0,6W
3332	4822 050 23302	3k3 1% 0,6W
3333	4822 116 80564	220Ω 5%
3342	4822 116 80562	10Ω 5%
3343	4822 116 80311	4Ω7 5%
3344	4822 050 21802	1k8 1% 0,6W
3345	4822 050 21202	1k2 1% 0,6W
3350	4822 052 10229	22Ω 5% 0,33W
3354	4822 116 52224	470Ω 5% 0,5W
3355	4822 116 52224	470Ω 5% 0,5W
3356	4822 051 10101	100Ω 2% 0,25W
3357	4822 051 10101	100Ω 2% 0,25W
3358	4822 116 80311	4Ω7 5%
3359	4822 116 80311	4Ω7 5%
3360	4822 116 80335	47Ω
3361	4822 116 80335	47Ω
3370	4822 050 22203	22k 1% 0,6W
3371	4822 050 22203	22k 1% 0,6W
3372	4822 050 22203	22k 1% 0,6W

3401	4822 050 23901	390Ω 1% 0,6W
3402	4822 050 23901	390Ω 1% 0,6W
3403	4822 116 52272	330k 5% 0,5W
3404	4822 116 52272	330k 5% 0,5W
3405	4822 050 25603	56k 1% 0,6W
3406	4822 050 25603	56k 1% 0,6W
3407	4822 050 23901	390Ω 1% 0,6W
3408	4822 050 23901	390Ω 1% 0,6W
3409	4822 051 10101	100Ω 2% 0,25W
3410	4822 051 10101	100Ω 2% 0,25W
3411	4822 051 10561	560Ω 2% 0,25W
3412	4822 051 10561	560Ω 2% 0,25W
3413	4822 116 52272	330k 5% 0,5W
3414	4822 116 52272	330k 5% 0,5W
3415	4822 116 52264	27k 5% 0,5W
3416	4822 116 52264	27k 5% 0,5W
3417	4822 051 10101	100Ω 2% 0,25W
3418	4822 051 10101	100Ω 2% 0,25W
3419	4822 116 52234	100k 5% 0,5W
3420	4822 116 52234	100k 5% 0,5W
3421	4822 116 52217	270Ω 5% 0,5W
3422	4822 116 52217	270Ω 5% 0,5W
3431	4822 051 10101	100Ω 2% 0,25W
3432	4822 051 10101	100Ω 2% 0,25W
3433	4822 051 10101	100Ω 2% 0,25W
3434	4822 051 10101	100Ω 2% 0,25W
3435	4822 051 10101	100Ω 2% 0,25W
3436	4822 051 10101	100Ω 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10101	100Ω 2% 0,25W
3439	4822 051 10101	100Ω 2% 0,25W
3440	4822 051 10101	100Ω 2% 0,25W
3441	4822 051 10101	100Ω 2% 0,25W
3442	4822 051 10101	100Ω 2% 0,25W
3443	4822 116 52217	270Ω 5% 0,5W
3444	4822 116 52217	270Ω 5% 0,5W
3447	4822 050 23302	3k3 1% 0,6W
3455	4822 050 28209	82Ω 1% 0,6W
3600	4822 050 24702	4k7 1% 0,6W
3601	4822 101 21175	POT. 50k
3603	4822 101 21176	POT. 100k
3605	4822 050 15602	5k6 1% 0,4W
3606	4822 050 15602	5k6 1% 0,4W
3607	4822 050 24703	47k 1% 0,6W
3608	4822 050 24703	47k 1% 0,6W
3609	4822 050 21002	1k 1% 0,6W
3610	4822 050 21002	1k 1% 0,6W
3611	4822 050 13303	33k 1% 0,4W
3612	4822 050 13303	33k 1% 0,4W
3613	4822 050 21002	1k 1% 0,6W
3614	4822 050 21002	1k 1% 0,6W
3615	4822 050 21002	1k 1% 0,6W
3616	4822 050 21002	1k 1% 0,6W
3617	4822 050 22202	2k2 1% 0,6W

3618	4822 050 22202	2k2 1% 0,6W
3619	4822 116 80335	47Ω
3620	4822 116 80335	47Ω
3621	4822 051 10101	100Ω 2% 0,25W
3622	4822 051 10101	100Ω 2% 0,25W
3623	4822 050 24702	4k7 1% 0,6W
3624	4822 050 24702	4k7 1% 0,6W
3625	4822 051 10561	560Ω 2% 0,25W
3626	4822 051 10561	560Ω 2% 0,25W
3627	4822 050 24702	4k7 1% 0,6W
3628	4822 050 24702	4k7 1% 0,6W
3629	4822 051 10561	560Ω 2% 0,25W
3630	4822 051 10561	560Ω 2% 0,25W
3631	4822 050 22202	2k2 1% 0,6W
3632	4822 050 22202	2k2 1% 0,6W
3637	4822 050 21002	1k 1% 0,6W
3638	4822 050 21002	1k 1% 0,6W
3639	4822 116 52234	100k 5% 0,5W
3640	4822 050 24703	47k 1% 0,6W
3641	4822 050 24703	47k 1% 0,6W
3645	4822 050 28209	82Ω 1% 0,6W
3646	4822 050 28209	82Ω 1% 0,6W
3647	4822 050 24702	4k7 1% 0,6W
3648	4822 050 24702	4k7 1% 0,6W
3649	4822 051 10182	1k8 2% 0,25W
3650	4822 051 10182	1k8 2% 0,25W
3651	4822 101 21177	POT. 20k
3652	4822 101 21177	POT. 20k
3653	4822 050 24702	4k7 1% 0,6W
3654	4822 050 24702	4k7 1% 0,6W
3655	4822 051 10182	1k8 2% 0,25W
3656	4822 051 10182	1k8 2% 0,25W
3657	4822 050 28209	82Ω 1% 0,6W
3658	4822 050 28209	82Ω 1% 0,6W
3659	4822 051 10101	100Ω 2% 0,25W
3660	4822 051 10101	100Ω 2% 0,25W
3661	4822 050 25604	560k 1% 0,6W
3662	4822 050 25604	560k 1% 0,6W
3665	4822 116 80335	47Ω
3666	4822 116 80335	47Ω
3667	4822 050 15602	5k6 1% 0,4W
3668	4822 050 15602	5k6 1% 0,4W
3678	4822 116 82366	2Ω2
3679	4822 053 11159	15Ω 5% 2W
3681	4822 053 11331	330Ω 5% 2W
3682	4822 053 11331	330Ω 5% 2W
3683	4822 050 21501	150Ω 1% 0,6W
3684	4822 050 21501	150Ω 1% 0,6W
3693	4822 116 80311	4Ω7 5%
3698	4822 116 52217	270Ω 5% 0,5W
3699	4822 116 52217	270Ω 5% 0,5W
3700	4822 116 52217	270Ω 5% 0,5W
3701	4822 116 52217	270Ω 5% 0,5W
3702	4822 116 52217	270Ω 5% 0,5W
3703	4822 116 52217	270Ω 5% 0,5W
3704	4822 050 22201	220Ω 1% 0,6W
3706	4822 050 21002	1k 1% 0,6W
3708	4822 050 21002	1k 1% 0,6W
3710	4822 050 21002	1k 1% 0,6W
3711	4822 050 21002	1k 1% 0,6W
3714	4822 050 21002	1k 1% 0,6W
3724	4822 050 21003	10k 1% 0,6W
3726	4822 050 21003	10k 1% 0,6W
3728	4822 050 21803	18k 1% 0,6W
3730	4822 116 52264	27k 5% 0,5W
3731	4822 116 52264	27k 5% 0,5W
3732	4822 116 52264	27k 5% 0,5W
3733	4822 116 52264	27k 5% 0,5W
3734	4822 116 52264	27k 5% 0,5W
3739	4822 050 24703	47k 1% 0,6W
3740	4822 050 24703	47k 1% 0,6W
3741	4822 050 24703	47k 1% 0,6W
3742	4822 050 24703	47k 1% 0,6W
3744	4822 050 22203	22k 1% 0,6W
3745	4822 116 52235	1M 5% 0,5W
3746	4822 050 24703	47k 1% 0,6W
3747	4822 050 21003	10k 1% 0,6W
3750	4822 050 24702	4k7 1% 0,6W
3751	4822 050 24702	4k7 1% 0,6W
3752	4822 050 24702	4k7 1% 0,6W
3753	4822 050 24702	4k7 1% 0,6W

COILS

5001	4822 146 31106	MAINS TRAFO /01
5001	4822 146 31083	MAINS TRAFO
5252	4822 157 62255	COIL
5253	4822 157 62255	COIL
5254	4822 280 70368	RELAY
5601	4822 101 21178	20k
5602	4822 101 21178	20k
5605	4822 242 72527	RESONATOR.4MHz

DIODES

6252	4822 130 61219	BZX79-C10
6253	4822 130 61219	BZX79-C10
6268	4822 130 30621	1N4148
6269	4822 130 30621	1N4148
6270	4822 130 30621	1N4148
6271	4822 130 30621	1N4148
6272	4822 130 30621	1N4148
6273	4822 130 34278	BZX79-B6V8
6274	4822 130 30621	1N4148
6275	4822 130 30621	1N4148

6276	4822 130 30621	1N4148
6277	4822 130 30621	1N4148
6278	5322 130 30684	1N4002GP
6279	5322 130 30684	1N4002GP
6280	5322 130 30684	1N4002GP
6281	5322 130 30684	1N4002GP
6282	4822 130 34281	BZX79-C15
6283	4822 130 82079	D3SBA20
6290	4822 130 30621	1N4148
6291	4822 130 30621	1N4148
6292	4822 130 30621	1N4148
6293	4822 130 30621	1N4148
6294	4822 130 30621	1N4148
6295	4822 130 30621	1N4148
6296	4822 130 30621	1N4148
6298	4822 130 34281	BZX79-C15
6299	4822 130 30621	1N4148
6301	4822 130 34499	BZX79-C20
6303	4822 130 30621	1N4148
6304	4822 130 30621	1N4148
6318	4822 130 30621	1N4148
6319	4822 130 30621	1N4148
6320	4822 130 30621	1N4148
6321	4822 130 30621	1N4148
6601	4822 130 30621	1N4148
6603	4822 130 30621	1N4148
6604	4822 130 34278	BZX79-C6V8
6605	4822 130 34278	BZX79-C6V8
6606	4822 130 30621	1N4148
6607	4822 130 30621	1N4148
6608	4822 130 30621	1N4148
6614	4822 130 34167	BZX79-C6V2
6615	4822 130 34174	BZX79-C4V7
6616	4822 130 34167	BZX79-C6V2
6632	4822 130 30621	1N4148
6633	4822 130 30621	1N4148
6634	4822 130 30621	1N4148
6635	4822 130 82978	LED
6636	4822 130 82978	LED
6640	4822 130 82978	LED
6641	4822 130 82978	LED
6648	4822 130 82978	LED
6650	4822 130 82978	LED
6655	4822 130 82978	LED
6669	4822 130 82978	LED
6682	4822 130 82978	LED
6683	4822 130 82978	LED
6684	4822 130 82978	LED
6690	5322 130 34834	BZX79-C3V6
6691	5322 130 34834	BZX79-C3V6
6692	5322 130 34834	BZX79-C3V6
6693	5322 130 34834	BZX79-C3V6
6700	4822 130 81254	GP1U520X

TRANSISTORS & IC's

7250	4822 130 40937	BC548B
7251	4822 130 40937	BC548B
7252	4822 209 80891	78M05CT
7255	4822 209 83274	NJM4560D
7256	4822 130 41691	BC556B
7257	4822 130 41691	BC556B
7258	4822 130 42607	BF483
7259	4822 130 42607	BF483
7260	4822 130 40937	BC548B
7261	4822 130 40937	BC548B
7264	4822 130 40937	BC548B
7265	4822 130 40937	BC548B
7266	4822 130 44197	BC558B
7267	4822 130 44197	BC558B
7268	4822 130 63007	2SD1893
7269	4822 130 63007	2SD1893
7274	4822 130 63006	2SD1253
7275	4822 130 63006	2SD1253
7276	4822 130 40937	BC548B
7277	4822 130 44461	BC546B
7281	4822 209 80891	78M05CT
7282	4822 130 40824	BD136
7283	4822 130 40937	BC548B
7284	4822 130 40937	BC548B
7285	4822 130 40937	BC548B
7286	4822 130 40941	BC558
7287	4822 130 40937	BC548B
7288	4822 130 40937	BC548B
7401	4822 209 70157	NJM4560DD
7402	4822 209 72748	LC7821
7601	4822 130 40937	BC548B
7602	4822 130 40937	BC548B
7603	4822 209 30941	NJM2068D
7604	4822 130 40937	BC548B
7605	4822 209 10263	HEF4052BP
7607	4822 130 40937	BC548B
7608	4822 130 40937	BC548B
7609	4822 209 83274	NJM4560D
7610	4822 209 63667	BA6229
7612	4822 130 44197	BC558B
7631	4822 130 40937	BC548B
7633	4822 130 40937	BC548B
7636	4822 130 40937	BC548B
7639	4822 130 44197	BC558B
7647	5322 209 11532	PC74HC4094P
7648	5322 209 11532	PC74HC4094P
7650	4822 209 31194	MC68HC05C4

4567

70FA910

A92-275

Service
Service
Service

Product Service Group CE Audio

Service Information

GB
To adapt the service manual the following sheets have been added/changed.

F
Afin de pouvoir adapter le "manual service" les feuillets suivants ont été soit modifiés, soit ajoutés.

NL
Voor het aanpassen van de service manual zijn de onderstaande pagina's toegevoegd/gewijzigd.

D
Zür anpassung des Service Manual sind die nachstehenden Seiten hinzugefügt/geändert.

I
Le seguenti pagine sono state cambiate/aggiunte allo scopo di adattare il Manuale di Servizio.

	Page	Reason
Front Selector 1 diagram	9a-10a	Update
Front Selector 2 diagram	12a-14a	Update
Front Selector PCB	15a-17a	Update
List of electrical Parts	27a-31a	Update

Correction to Power unit diagram page 18-19, the value of R3288,R3289 should read 3k3 instead 3k

Add or change following code nummers on page 24 :

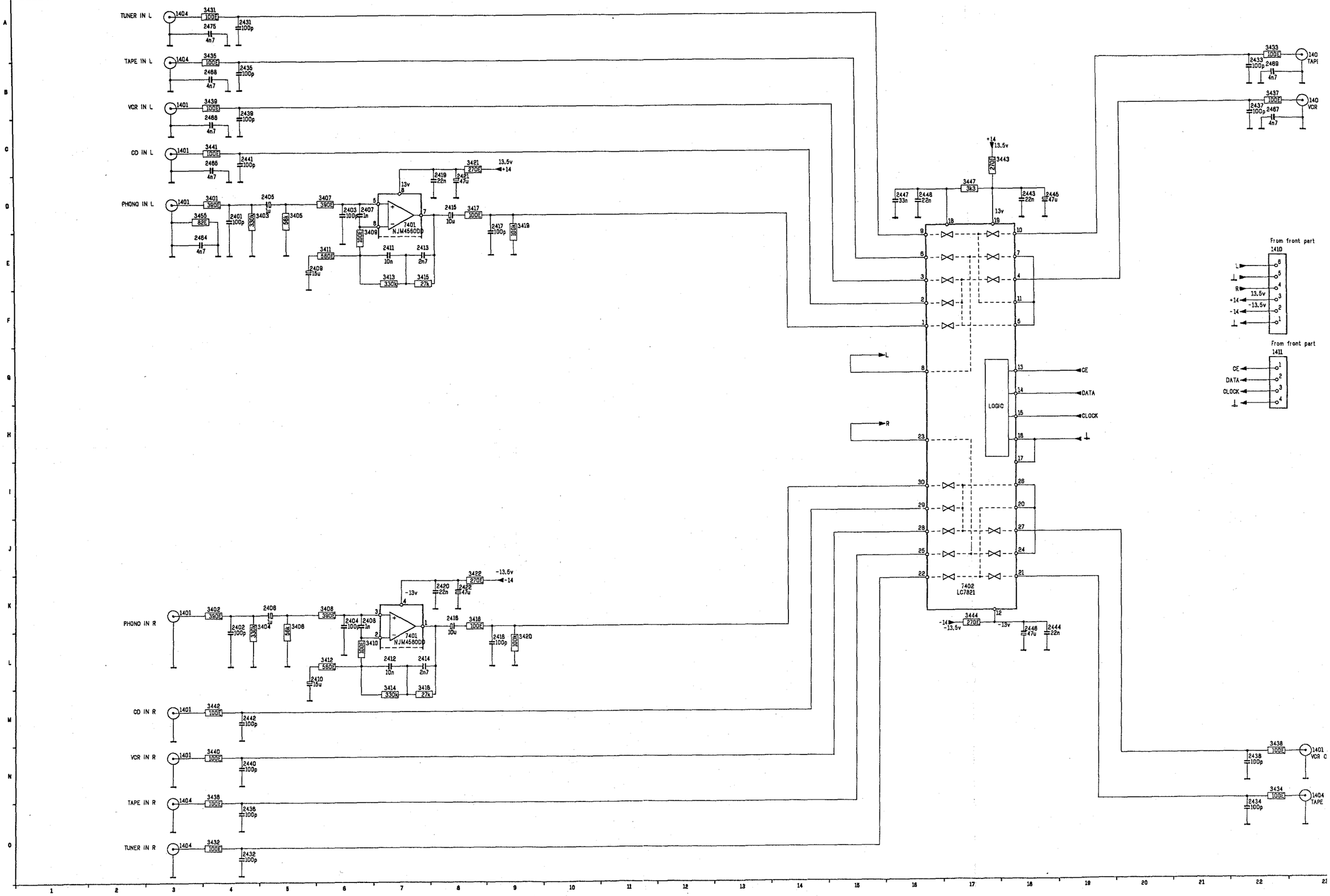
Mechanical Parts

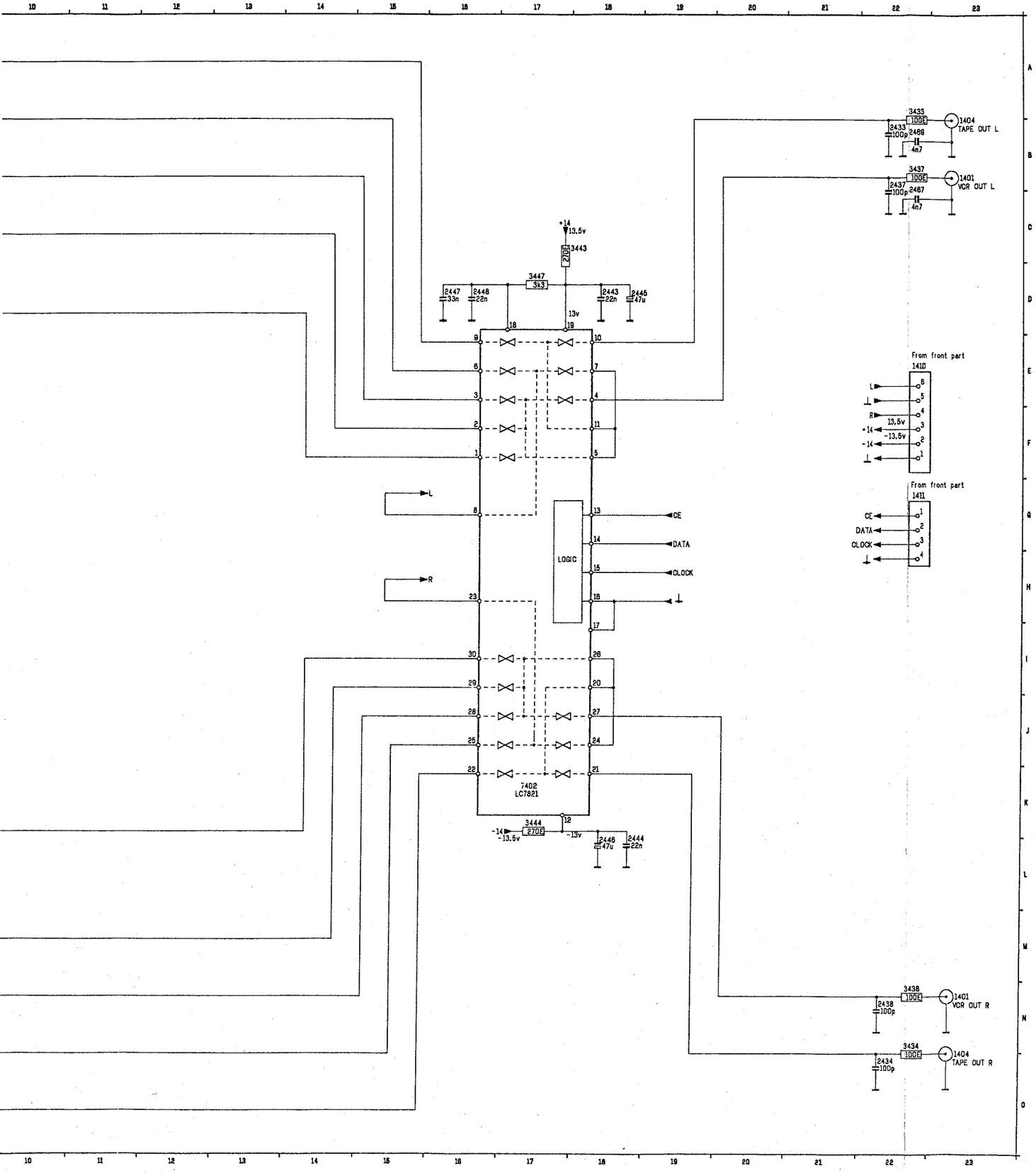
change	425 to 4822 214 52009	IR EYE
change	426 to 4822 276 13277	POWER SWITCH
added	426 to 4822 276 13224	POWER SWITCH only /01
change	435 to 4822 321 10781	MAINS CORD

9a

10a

SELECTOR UNIT





B23
B23
N23
D23
1401 B23
1401 B3
1401 C3
1401 D3
1401 K3
1401 M3
1401 N23
1401 N3
1404 A3
1404 B3
1404 B23
1404 N3
1404 D23
1404 D3
2401 D4
2402 K4
2403 D6
2404 K6
2405 D5
2406 K5
2407 D6
2408 K6
2409 E5
2410 L5
2411 E7
2412 L7
2413 E7
2414 L7
2415 D8
2416 K8
2417 D9
2418 L9
2419 D8
2420 K8
2421 D8
2422 K8
2431 A4
2432 D4
2433 B22
2434 D22
2435 B4
2436 D4
2437 B22
2438 N22
2439 B4
2440 N4
2441 C4
2442 M4
2443 D18
2444 L18
2445 D18
2446 L18
2447 D16
2448 D16
2464 E3
2465 C4
2466 C4
2467 C22
2468 B4
2469 B22
2475 A4
3401 D4
3402 K4
3403 D4
3404 K4
3405 D5
3406 K5
3407 D6
3408 K6
3409 E6
3410 L6
3411 E6
3412 L6
3413 E7
3414 M7
3415 E7
3416 M7
3417 D8
3418 K8
3419 D9
3420 L9
3421 C8
3422 K8
3431 A4
3432 D4
3433 A22
3434 N22
3435 A4
3436 M4
3437 B22
3438 N22
3439 B4
3440 M4
3441 C4
3442 M4
3443 C17
3444 K17
3447 D17
3455 D3
7401 D7
7401 L7
7402 K17
1525 C 3
1532 B 2
2525 D 3
8526 D 2
8527 E 2
8528 D 2
8529 E 2
9525 D 4
9526 D 4
9527 D 4
9528 E 4
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9530 E 4
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9533 D 3
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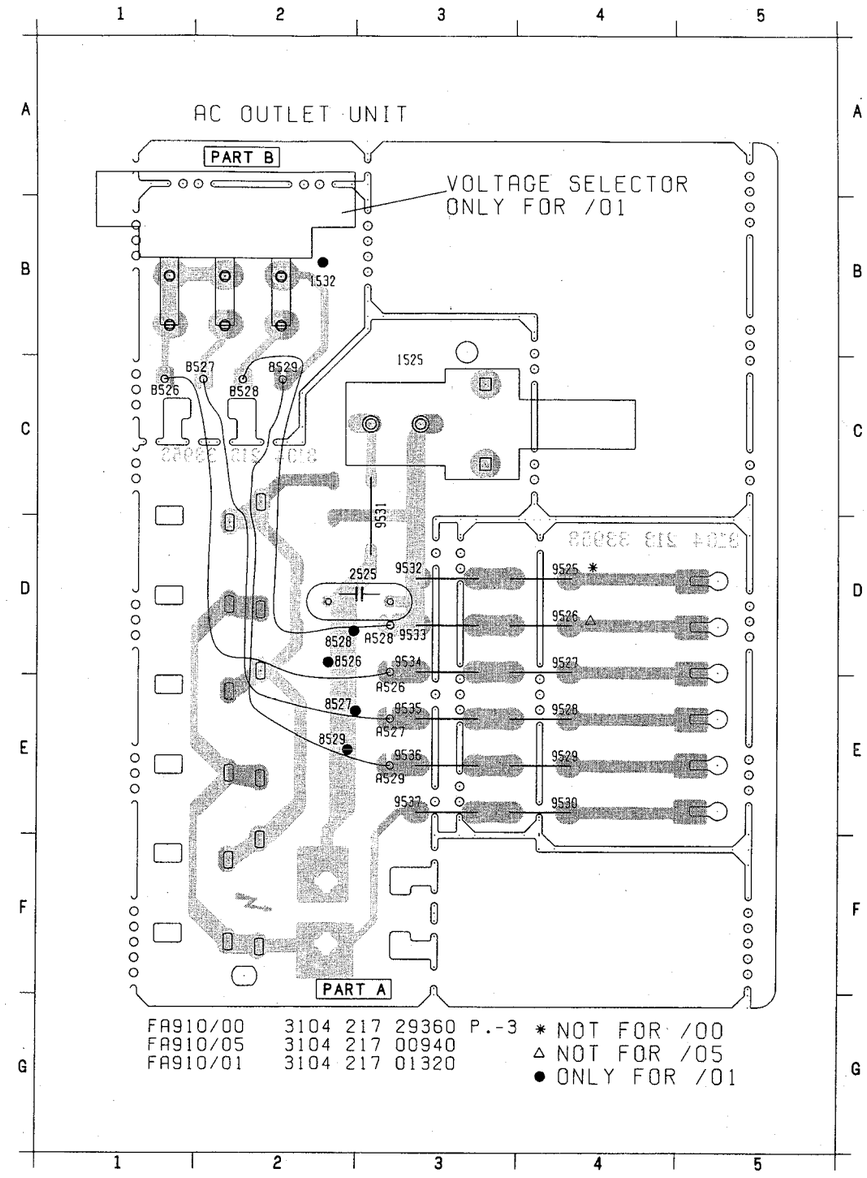
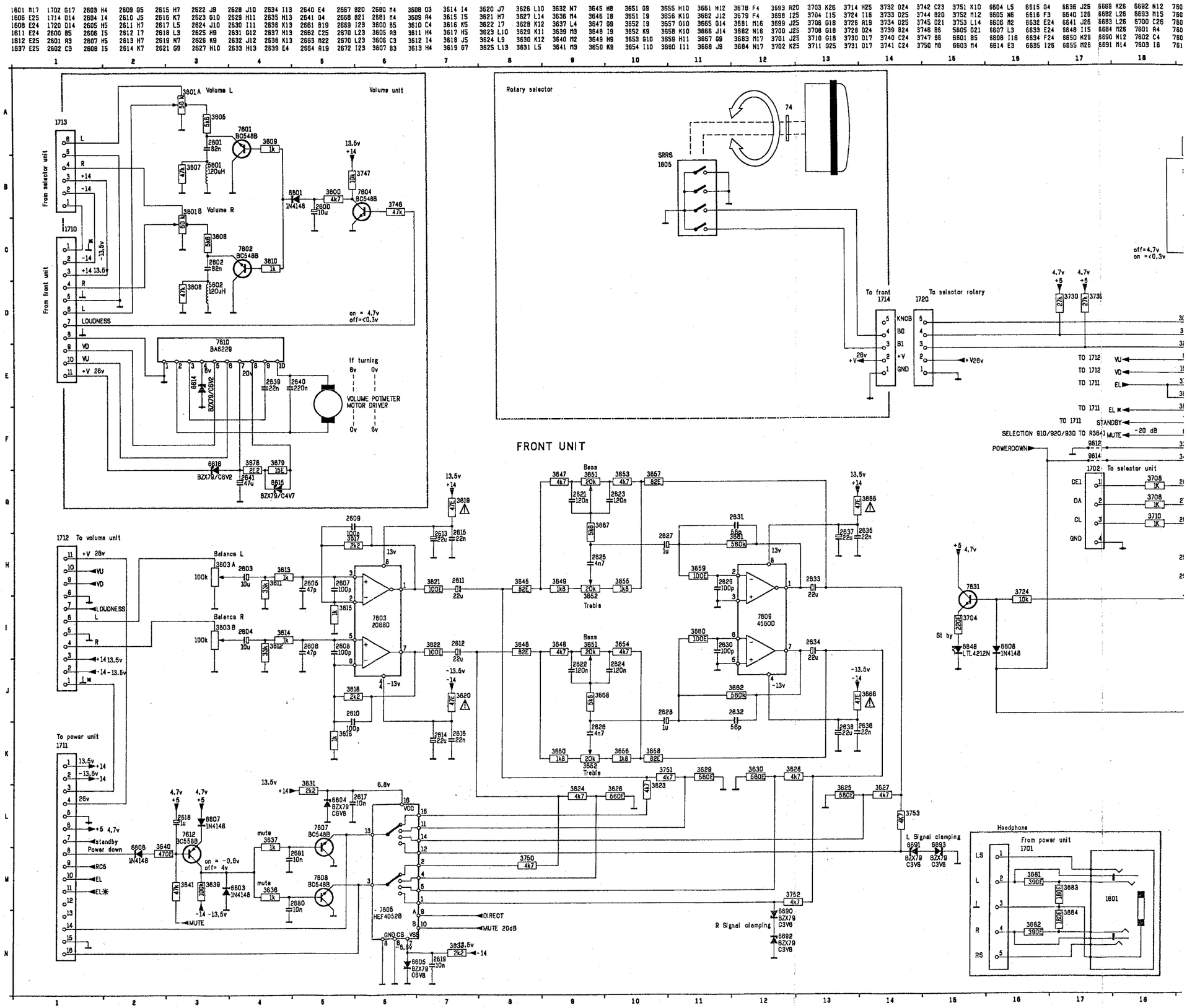
9537 E 3



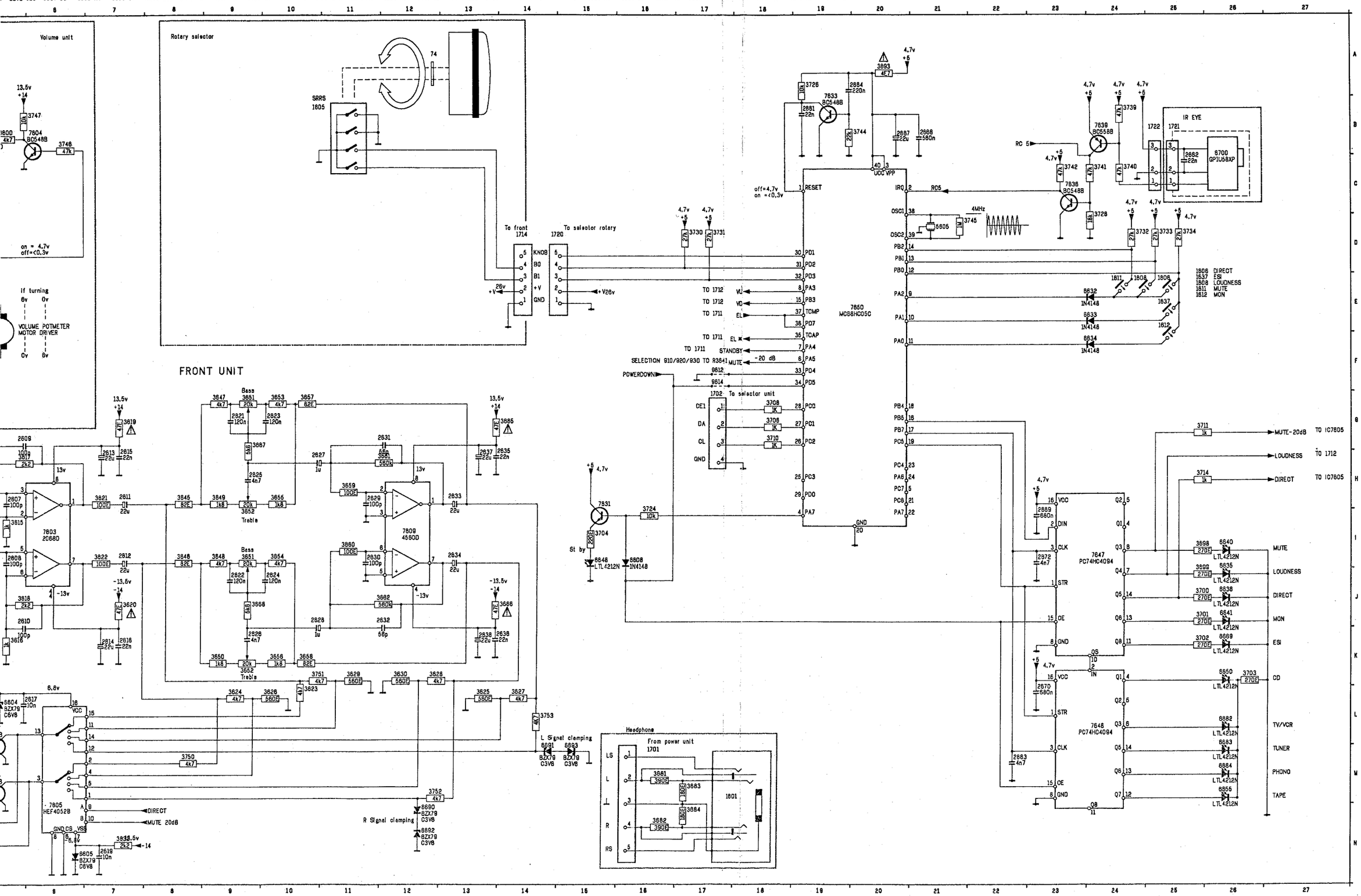
12a

13a



PCS 57 891

2667 B20	2680 M4	3608 D3	3614 I4	3620 J7	3626 L10	3632 N7	3645 H8	3651 G9	3655 H10	3661 N12	3678 F4	3693 R20	3703 K26	3714 H25	3732 D24	3742 C23	3751 K10	6604 L5	6615 G4	6636 J26	6669 K26	6692 N12	7604 B6	7612 L3	7650 E20
2668 B21	2681 M4	3609 R4	3615 I5	3621 H7	3627 L14	3636 M4	3646 I8	3651 I9	3656 K10	3662 J12	3679 F4	3698 I25	3704 I15	3724 I16	3733 D25	3744 B20	3752 M12	6605 N6	6616 F3	6640 I26	6682 L26	6693 M15	7605 N6	7633 B19	9812 F17
2669 I23	3600 B5	3610 C4	3616 K5	3622 I7	3628 K12	3637 L4	3647 G9	3652 I9	3657 G10	3665 G14	3681 M16	3699 J25	3706 G18	3726 A18	3734 D25	3745 D21	3753 L14	6606 M2	6632 E24	6641 J26	6683 L26	6700 C26	7607 L5	7636 C23	9814 F17
2670 L23	3605 A3	3611 H4	3617 H5	3623 L10	3629 K11	3639 M3	3648 I9	3652 K9	3658 K10	3666 J14	3682 N16	3700 J25	3708 G18	3728 D24	3739 B24	3746 B6	5605 D21	6607 L3	6633 E24	6648 I15	6684 M26	7601 R4	7608 M5	7639 B24	120uH B3
2670 L23	3608 C3	3612 I4	3618 J5	3624 L9	3630 K12	3640 M2	3649 H9	3653 G10	3659 H11	3667 G9	3683 M17	3701 J25	3710 G18	3730 D17	3740 C24	3747 B6	6601 B5	6608 I16	6634 F24	6650 M26	6690 M12	7602 C4	7609 I12	7647 I24	120uH D3
2672 I23	3607 B3	3613 H4	3619 G7	3625 L13	3631 L5	3641 M3	3650 K9	3654 I10	3660 I11	3668 J9	3684 N17	3702 K25	3711 G25	3731 D17	3741 C24	3750 M8	6603 N4	6614 E3	6635 I26	6655 M26	6691 M14	7603 I6	7610 E3	7648 L24	



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1401	C 1 2639	E10	3667	H 6	9623	D 3		
1404	C 1 2640	D10	3668	H 6	9624	D 3		
1404	D 1 2641	E10	3678	E10	9625	D 3		
1404	D 1 2661	H 3	3679	E 9	9627	D 3		
1410	D 8 2662	I 3	3681	A11	9628	G 4		
1411	B 8 2663	F 8	3682	B11	9629	C 4		
1601	B 9 2664	H 2	3683	A10	9630	G 4		
1605	B12 2668	H 2	3684	A10	9631	G 4		
1606	J 9 2668	H 2	3693	I 2	9632	H 4		
1608	J11 2669	I 5	3698	I11	9633	H11		
1611	J12 2670	F 7	3699	I10	9641	G 4		
1612	J 7 2672	I 6	3700	I 9	9642	G 4		
1637	J 4 2680	F11	3701	I 7	9643	H 2		
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1702	F 4 3401	B 2	3703	F 6	9647	D 4		
1710	D12 3402	A 2	3704	H 1	9653	H 5		
1711	G 5 3403	B 2	3706	F 3	9656	C 4		
1712	G12 3404	A 2	3708	F 3	9657	C 4		
1713	E11 3405	B 3	3710	F 3	9659	B 4		
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1721	J 3 3408	A 3	3724	I 2	9663	H 5		
1722	I 3 3409	B 4	3726	I 3	9665	H 5		
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2403	B 3 3412	A 3	3731	G 3	9668	G 4		
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2405	B 3 3414	A 3	3733	I 4	9672	H 5		
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2421	B 4 3438	C 2	5605	H 2	9693	I 6		
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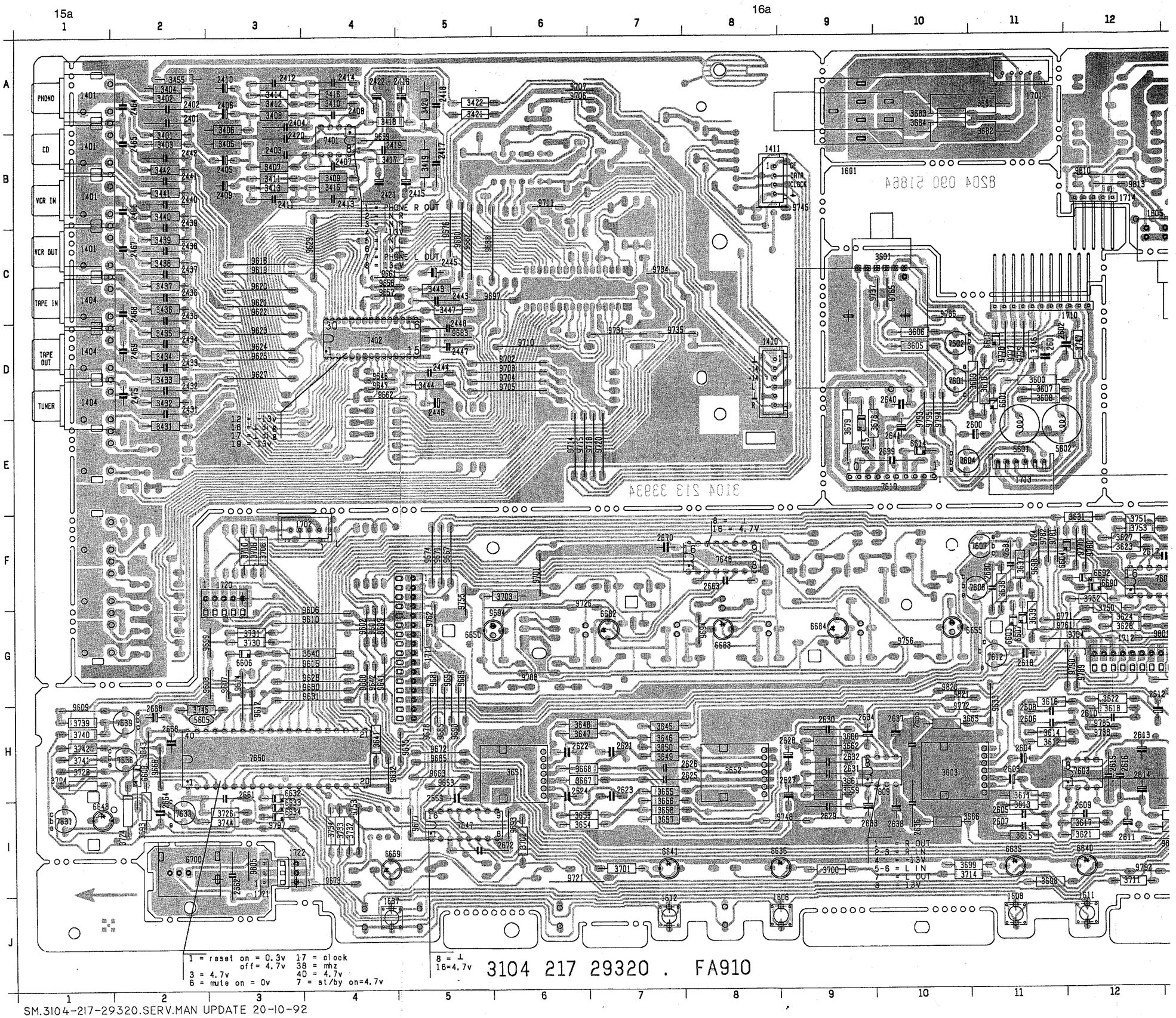
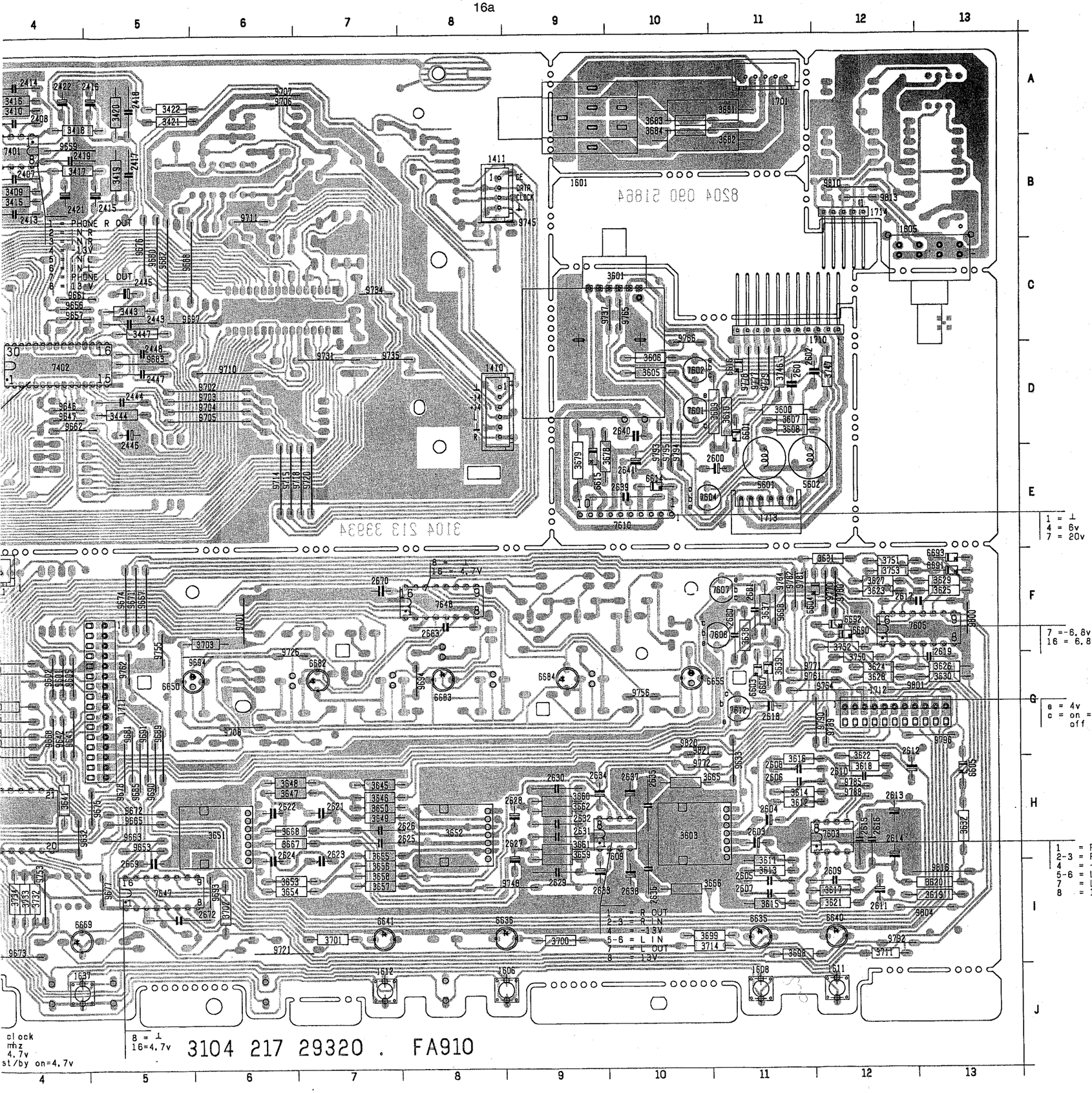
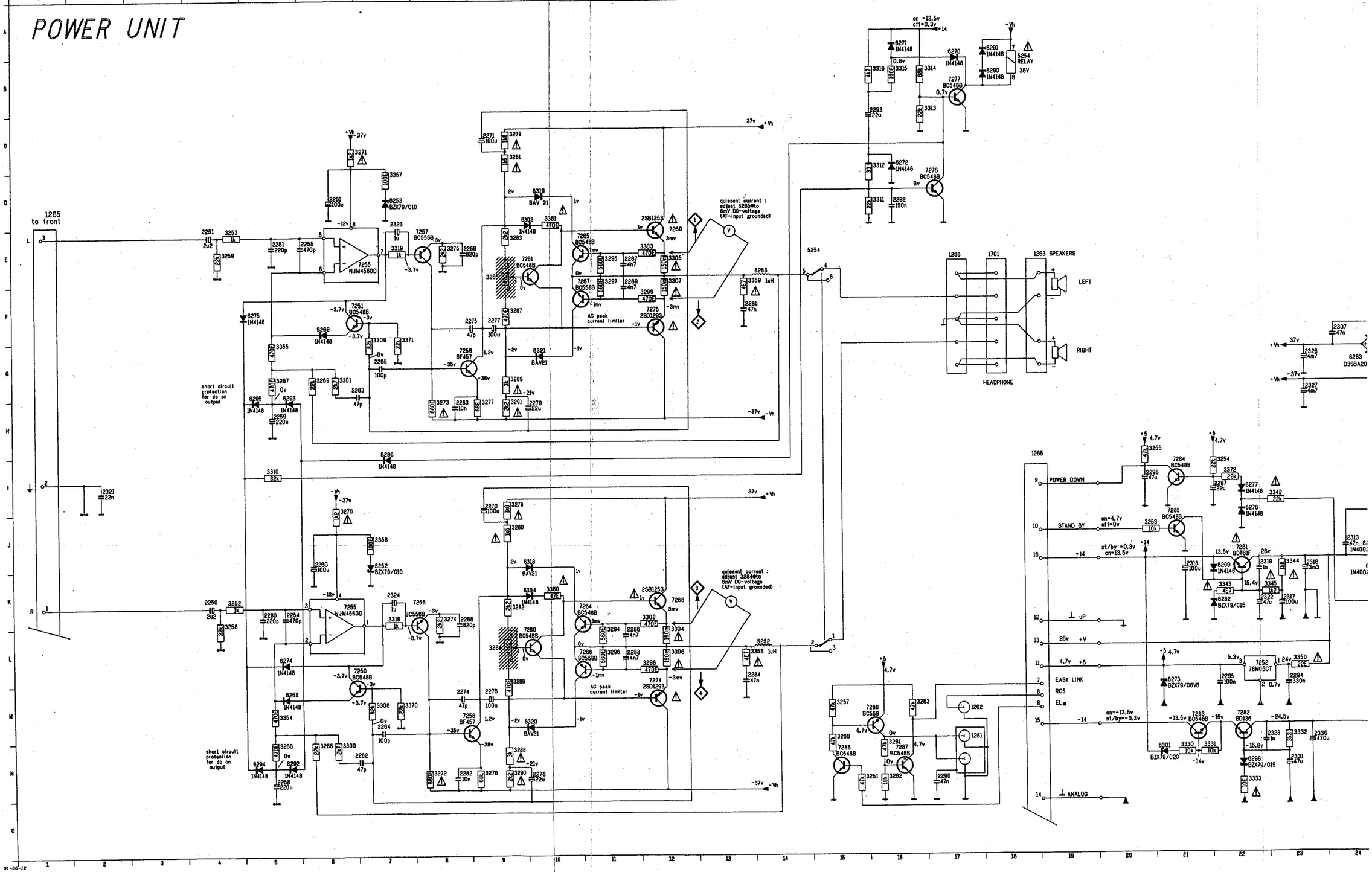
2434	D 2 3443	C 5	6606	G 3	9699	G 3		
2435	C 2 3444	D 5	6607	G11	9701	F 6		
2436	C 2 3447	C 5	6608	H 2	9702	D 6		
2437	C 2 3455	A 2	6614	E10	9703	D 6		
2438	C 2 3600	D11	6615	E 9	9704	D 6		
2439	B 2 3601	C10	6616	D11	9705	D 6		
2440	B 2 3603	H10	6632	H 3	9706	A 6		
2441	B 2 3605	D10	6633	I 3	9707	A 6		
2442	B 2 3606	D10	6634	I 3	9708	G 6		
2443	C 5 3607	D11	6635	I11	9710	D 6		
2444	D 5 3608	D11	6636	I 9	9711	B 6		
2445	C 5 3609	D11	6640	I12	9714	E 6		
2446	D 5 3610	D11	6641	I 7	9715	E 6		
2447	D 5 3611	I11	6648	I 1	9716	E 7		
2448	D 5 3612	H11	6650	G 5	9720	E 7		
2464	A 2 3613	I11	6655	G11	9721	I 6		
2465	B 2 3614	H11	6669	I 4	9726	F 6		
2466	B 2 3615	I11	6682	G 7	9731	D 7		
2467	C 2 3616	H11	6683	G 8	9734	C 7		
2468	C 2 3617	I12	6684	G 9	9735	D 7		
2469	D 2 3618	H12	6690	F12	9737	C 9		
2475	D 2 3619	I13	6691	F13	9745	B 9		
2600	E11 3620	I13	6692	F12	9748	I 9		
2601	D11 3621	I12	6693	F13	9753	I 4		
2602	D12 3622	H12	6700	I 2	9754	G12		
2603	H11 3623	F12	7401	B 4	9755	F 5		
2604	H11 3624	G12	7402	D 4	9756	G10		
2605	I11 3625	F13	7601	D10	9761	G12		
2606	H11 3626	G13	7602	D10	9762	G 5		
2607	I11 3627	F12	7603	H12	9765	C10		
2608	H11 3628	G12	7604	E11	9766	C10		
2609	I12 3629	F13	7605	F13	9770	F12		
2610	H12 3630	G13	7607	F11	9771	G12		
2611	I12 3631	F12	7608	F11	9772	H10		
2612	G12 3632	H13	7609	H10	9777	D11		
2613	H12 3637	F11	7610	E10	9778	D11		
2614	H12 3638	F11	7612	G11	9779	D11		
2615	H12 3639	G11	7631	I 1	9780	F12		
2616	H12 3640	G 4	7633	I 2	9781	F11		
2617	F12 3641	H 4	7636	H 2	9782	F11		
2618	G11 3645	H 7	7639	H 2	9784	F11		
2619	G13 3646	H 7	7647	I 5	9785	H12		
2621	H 7 3647	H 6	7648	F 8	9788	H12		
2622	H 6 3648	H 6	7650	H 3	9789	G12		
2623	H 7 3649	H 7	9601	G 4	9790	G12		
2624	H 6 3650	H 7	9602	G 4	9792	I12		
2625	H 8 3651	H 6	9605	G 4	9793	E10		
2626	H 8 3652	H 8	9606	G 4	9794	E10		
2627	H 9 3653	I 6	9607	G 3	9795	E10		
2628	H 9 3654	I 6	9608	G 3	9796	G13		
2629	I 9 3655	H 7	9609	H 1	9797	I 3		
2630	H 9 3656	I 7	9610	G 4	9800	F13		
2631	H 9 3657	I 7	9612	H 3	9801	G13		
2632	H 9 3658	I 7	9614	G 3	9804	I13		
2633	I 9 3659	H 9	9615	G 4	9805	I 3		
2634	H 9 3660	H 9	9618	C 3	9810	B12		
2635	H10 3661	H 9	9619	C 3	9813	B12		




1 = PHONE R OUT
2 = N R
3 = N R
4 = -13V
5 = N L
6 = N L
7 = PHONE L OUT
8 = 13V
1 = ⊥
4 = 6v
7 = 20v
7 =-6,8v
16 = 6,8v
e = 4v
c = on = -0,6v
off = 4v
1 = R OUT
2-3 = R IN
4 = -13V
5-6 = L IN
7 = L OUT
8 = 13V
8 = ⊥
16=4,7v
clock
mhz
4,7v
st/by on=4,7v
3104 217 29320 . FA910

PCS 57 892

POWER UNIT


1265 to front
short circuit protection for ds on output
quiesent current : adjust 3286etc to 6mV DC-voltage (AF-input grounded)
AC peak current limiter
on =13.5v off=0.3v
0.8v
0.7v
5254 RELAY 38V
HEADPHONE
LEFT
RIGHT
POWER DOWN
STAND BY
st/by =0.3v on=13.5v
on=4,7v off=0v
on=-13.5v st/by=-0.3v
EASY LINK
RC5
EL■
⊥ uP
⊥ ANALOG
78M05CT
BZX79/C6V8
BZX79/C20
BZX79/C15
BDT61F
BD138
D3SBA20

on =13.5v
off=0.3v
+14
+Vh
6271 1N4148
6270 1N4148
6291 1N4148
6290 1N4148
5254 RELAY
36V
0.8v
3316 4k7
3315 150R
3314 68k
7277 BC548B
0.7v
2293 22u
3313 22k
3312 33
6272 1N4148
7276 BC548B
0v
3311 22k
2292 150n
37v +Vh
6319 AV 21
1v
3361 470R
7265 BC548B
1mv
0v
3295 360R
2287 4n7
3303 470R
3305 150R
2SB1253
7269
3mv
7267 BC558B
-1mv
3297 150R
2289 4n7
3299 470R
3307 150R
-3mv
7275 2SD1293
-1v
AC peak current limiter
quiesent current : adjust 3295mVo 6mV DC-voltage (AF-input grounded)
5253
3359 1uH
4k7
2285 47n
5254
1268
1701
1263 SPEAKERS
LEFT
RIGHT
HEADPHONE
6321 AV21
279 52u
-37v -Vh
37v +Vh
3380 47R
7264 BC548B
7266 BC558B
3294 360R
3296 360R
2286 4n7
2288 4n7
3302 470R
3304 150R
3306 150R
3298 470R
2SB1253
7268
7274 2SD1293
AC peak current limiter
quiesent current : adjust 3264mVo 6mV DC-voltage (AF-input grounded)
5252
3358 1uH
2284 47n
278 52u
-37v -Vh
+5 4.7v
3257 47k
7288 BC558
4.7v
0v
3263 47k
1262
1261
3260 47k
7288 BC548B
3261 47k
7287 BC548B
3251 47k
3262 18k
2290 47n
1265
9 POWER DOWN
10 STAND BY
16 +14
12 ⊥ uP
13 26v +v
11 4.7v +5
7 EASY LINK
8 RC5
6 EL■
15 -14
14 ⊥ ANALOG
+5 4.7v
3255 47k
7284 BC548B
2298 47u
3254 22k
2297 22u
3372 22k
6277 1N4148
3342 22k
6276 1N4148
7285 BC548B
3256 10k
on=4,7v
off=0v
st/by =0.3v
on=13.5v
7281 BD781F
13.5v
26v
6299 1N4148
2318 100u
2319 1n
3344 18k
2318 3n3
3343 4k7
15.4v
3345 1k2
6282 BZX79/C15
2322 47u
2317 100u
5.3v
7252 78M05CT
0.7v
3350 22R
6273 BZX79/C6V8
2295 100n
2294 330n
on=-13.5v
st/by=-0.3v
7283 BC548B
-13.5v
-16v
7282 BD136
-24,5v
6301 BZX79/C20
3330 10k
3331 10k
-14v
-15.8v
6298 BZX79/C15
3333 10E
2328 1n
3332 33k
2330 470u
2331 47u
1250 T3.15A
2307 47n
2326 4m7
6283 D3SBA20
2303 47n
2309 47n
1251 T3.15A
2327 4m7
27v~
1288
1267
5001
1259 T1.0A
19v~
1260 T1.0A
2313 47n
6280 1N4002GP
6278 1N4002GP
6279 1N4002GP
6281 1N4002GP
2314 47n
2315 47n
240V~ ONLY FOR /05 AND /10
220V~ NOT FOR /05 AND /10
220V~
2525 4n7
1525
MAINS
1*FUSE
MAINS AND OUTLET PCB
1269
1270
TO 4001 ANALOG SELECTOR UNIT
TO 1004 VOLUME
PART B
1532
8528
8527
8529
AC OUTLET UNIT PART A
A528
A527
A529
A501 VERSION
DRAW POSITION 115V
AC OUTLET UNIT :/00 3104 217 29360
:/05 3104 217 00940
:/01 3104 217 01320

MISCELLANEOUS

1250	4822 071 53152	FUSE T 3.15A
1251	4822 071 53152	FUSE T 3.15A
1259	4822 071 51002	FUSE T 1A
1260	4822 071 51002	FUSE T 1A
1261	4822 265 20542	PIN JACK
1262	4822 265 20543	PIN JACK
1263	4822 267 31481	LS CONNECTOR
1401	4822 267 31451	PIN JACK
1404	4822 267 31449	PIN JACK
1525	4822 276 13277	POWER SWITCH
1525	4822 276 13224	POWER SWITCH /01
1532	4822 272 10315	VOLT.SELECTOR/01
1601	4822 267 31479	HEADPHONE SOCKET
1605	4822 273 10237	ROTARY SWITCH
1606	4822 276 13213	TACT SWITCH
1608	4822 276 13213	TACT SWITCH
1611	4822 276 13213	TACT SWITCH
1612	4822 276 13213	TACT SWITCH
1637	4822 276 13213	TACT SWITCH

CAPACITORS

2250	4822 124 40244	2,2µF 20% 63V
2251	4822 124 40244	2,2µF 20% 63V
2254	4822 122 31435	470pF 10% 50V
2255	4822 122 31435	470pF 10% 50V
2258	4822 124 40196	220µF 20% 16V
2259	4822 124 40196	220µF 20% 16V
2260	4822 124 41643	100µF 20% 16V
2261	4822 124 41643	100µF 20% 16V
2262	4822 122 10181	47pF 5% 50V
2263	4822 122 10181	47pF 5% 50V
2264	4822 122 33308	100pF 10% 500V
2265	4822 122 33308	100pF 10% 500V
2268	4822 122 10173	820pF 10% 50V
2269	4822 122 10173	820pF 10% 50V
2270	4822 124 40255	100µF 20% 63V
2271	4822 124 40255	100µF 20% 63V
2274	4822 126 12017	47pF NPO 500V
2275	4822 126 12017	47pF NPO 500V
2276	4822 124 41584	100µF 20% 10V
2277	4822 124 41584	100µF 20% 10V
2278	4822 124 41596	22µF 20% 50V
2279	4822 124 41596	22µF 20% 50V
2280	4822 122 10172	220pF 10% 50V
2281	4822 122 10172	220pF 10% 50V
2282	4822 122 10177	10nF 20% 25V
2283	4822 122 10177	10nF 20% 25V
2284	4822 121 41984	47nF 10% 400V
2285	4822 121 41984	47nF 10% 400V
2286	4822 126 11311	4,7nF 50V
2287	4822 126 11311	4,7nF 50V
2288	4822 126 11311	4,7nF 50V
2289	4822 126 11311	4,7nF 50V
2290	4822 121 43526	47nF 5% 100V
2292	4822 121 41854	150nF 5% 63V
2293	5322 124 41431	22µF 20% 35V
2294	5322 121 42661	330nF 5% 63V
2295	5322 121 42386	100nF 5% 63V
2297	5322 124 41431	22µF 20% 35V
2298	4822 124 40244	2,2µF 20% 63V
2303	4822 121 43875	47nF 5% 250V
2307	4822 121 43875	47nF 5% 250V
2309	4822 121 43875	47nF 5% 250V
2313	4822 121 41984	47nF 10% 400V
2314	4822 121 41984	47nF 10% 400V
2315	4822 121 41984	47nF 10% 400V
2316	4822 124 42367	3300µF 20% 35V
2317	5322 124 21189	100µF 20% 40V
2318	5322 124 21189	100µF 20% 40V
2319	4822 122 10158	1nF 10% 50V
2321	4822 122 10166	22nF 30% 16V
2322	4822 124 40433	47µF 20% 25V
2323	4822 124 40242	1µF 20% 63V
2324	4822 124 40242	1µF 20% 63V
2326	4822 124 80415	4700µF 20% 50V
2327	4822 124 80415	4700µF 20% 50V
2328	4822 122 10158	1nF 10% 50V
2330	4822 124 41334	470µF 20% 35V
2331	4822 124 40433	47µF 20% 25V
2401	4822 122 10183	100pF 5% 50V
2402	4822 122 10183	100pF 5% 50V
2403	4822 122 10183	100pF 5% 50V
2404	4822 122 10183	100pF 5% 50V
2405	4822 124 40242	1µF 20% 63V
2406	4822 124 40242	1µF 20% 63V
2407	4822 122 10158	1nF 10% 50V
2408	4822 122 10158	1nF 10% 50V
2409	4822 124 21212	15µF 20% 40V
2410	4822 124 21212	15µF 20% 40V
2411	4822 122 10177	10nF 20% 25V
2412	4822 122 10177	10nF 20% 25V
2413	4822 126 11309	2,7nF 10%Y5F 50V
2414	4822 126 11309	2,7nF 10%Y5F 50V
2415	4822 124 40435	10µF 20% 50V
2416	4822 124 40435	10µF 20% 50V
2417	4822 122 10183	100pF 5% 50V
2418	4822 122 10183	100pF 5% 50V
2419	4822 122 10166	22nF 30% 16V
2420	4822 122 10166	22nF 30% 16V
2421	4822 124 22427	47µF 20% 40V
2422	4822 124 40433	47µF 20% 25V
2431	4822 122 10183	100pF 5% 50V
2432	4822 122 10183	100pF 5% 50V

2433	4822 122 10183	100pF 5% 50V
2434	4822 122 10183	100pF 5% 50V
2435	4822 122 10183	100pF 5% 50V
2436	4822 122 10183	100pF 5% 50V
2437	4822 122 10183	100pF 5% 50V
2438	4822 122 10183	100pF 5% 50V
2439	4822 122 10183	100pF 5% 50V
2440	4822 122 10183	100pF 5% 50V
2441	4822 122 10183	100pF 5% 50V
2442	4822 122 10183	100pF 5% 50V
2443	4822 122 10166	22nF 30% 16V
2444	4822 122 10166	22nF 30% 16V
2445	4822 124 22427	47µF 20% 40V
2446	4822 124 40433	47µF 20% 25V
2447	4822 126 10003	33nF 30% 50V
2448	4822 122 10166	22nF 30% 16V
2464	4822 126 11005	4,7nF 20% 50V
2465	4822 126 11005	4,7nF 20% 50V
2466	4822 126 11005	4,7nF 20% 50V
2467	4822 126 11005	4,7nF 20% 50V
2468	4822 126 11005	4,7nF 20% 50V
2469	4822 126 11005	4,7nF 20% 50V
2475	4822 126 11005	4,7nF 20% 50V
2525	4822 126 12224	4,7nF 20% 125V
2600	4822 124 40435	10µF 20% 50V
2601	4822 121 41754	82nF 10% 100V
2602	4822 121 41754	82nF 10% 100V
2603	4822 124 23179	10µF 20% 16V
2604	4822 124 23179	10µF 20% 16V
2605	4822 122 10181	47pF 5% 50V
2606	4822 122 10181	47pF 5% 50V
2607	4822 122 10183	100pF 5% 50V
2608	4822 122 10183	100pF 5% 50V
2609	4822 122 10183	100pF 5% 50V
2610	4822 122 10183	100pF 5% 50V
2611	4822 124 23176	22µF 20% 16V
2612	4822 124 23176	22µF 20% 16V
2613	4822 124 42368	22µF 35V
2614	4822 124 42368	22µF 35V
2615	4822 122 10166	22nF 30% 16V
2616	4822 122 10166	22nF 30% 16V
2617	4822 122 10177	10nF 20% 25V
2618	4822 124 40242	1µF 20% 63V
2619	4822 122 10177	10nF 20% 25V
2621	4822 121 51409	120nF 5% 63V
2622	4822 121 51409	120nF 5% 63V
2623	4822 121 51409	120nF 5% 63V
2624	4822 121 51409	120nF 5% 63V
2625	4822 126 11311	4,7nF 50V
2626	4822 126 11311	4,7nF 50V
2627	4822 124 41969	1µF 20% 50V
2628	4822 124 41969	1µF 20% 50V
2629	4822 122 10183	100pF 5% 50V
2630	4822 122 10183	100pF 5% 50V
2631	4822 122 33997	56pF 5%NPO
2632	4822 122 33997	56pF 5%NPO
2633	4822 124 23176	22µF 20% 16V
2634	4822 124 23176	22µF 20% 16V
2635	4822 122 10166	22nF 30% 16V
2636	4822 122 10166	22nF 30% 16V
2637	4822 124 42368	22µF 35V
2638	4822 124 42368	22µF 35V
2639	4822 122 10166	CERC TUB 22N
2640	4822 121 42408	220nF 5% 63V
2641	4822 124 22347	47µF 20% 50v
2661	4822 122 10166	22nF 30% 16V
2662	4822 122 10166	22nF 30% 16V
2663	4822 126 11311	4,7nF 50V
2664	4822 121 42408	220nF 5% 63V
2667	4822 124 23176	22µF 20% 16V
2668	4822 121 51412	560nF 5% 63V
2669	5322 121 42498	680nF 5% 63V
2670	5322 121 42498	680nF 5% 63V
2672	4822 126 11311	4,7nF 50V
2680	4822 122 10177	10nF 20% 25V
2681	4822 122 10177	10nF 20% 25V

RESISTORS

3251	4822 050 24703	47k 1% 0,6W
3252	4822 050 21002	1k 1% 0,6W
3253	4822 050 21002	1k 1% 0,6W
3254	4822 050 22203	22k 1% 0,6W
3255	4822 050 24703	47k 1% 0,6W
3256	4822 050 21003	10k 1% 0,6W
3257	4822 050 24703	47k 1% 0,6W
3258	4822 050 22203	22k 1% 0,6W
3259	4822 050 22203	22k 1% 0,6W
3260	4822 050 24703	47k 1% 0,6W
3261	4822 050 24703	47k 1% 0,6W
3262	4822 050 21803	18k 1% 0,6W
3263	4822 050 24703	47k 1% 0,6W
3266	4822 116 52224	470Ω 5% 0,5W
3267	4822 116 52224	470Ω 5% 0,5W
3268	4822 050 22203	22k 1% 0,6W
3269	4822 050 22203	22k 1% 0,6W
3270	4822 053 10122	1k2 5% 1W
3271	4822 053 10122	1k2 5% 1W
3272	4822 052 10681	680Ω 5% 0,33W
3273	4822 052 10681	680Ω 5% 0,33W
3274	4822 050 22202	2k2 1% 0,6W
3275	4822 050 22202	2k2 1% 0,6W
3276	4822 050 16809	68Ω 1% 0,4W
3277	4822 050 16809	68Ω 1% 0,4W
3278	4822 053 12182	1k8 5% 3W
3279	4822 053 12182	1k8 5% 3W
3280	4822 053 10152	1k5 5% 1W

3616	4822 050 21002	1k 1% 0,6W
3617	4822 050 22202	2k2 1% 0,6W
3618	4822 050 22202	2k2 1% 0,6W
3619	4822 052 10479	47Ω 5% 0,33W
3620	4822 052 10479	47Ω 5% 0,33W
3621	4822 051 10101	100Ω 2% 0,25W
3622	4822 051 10101	100Ω 2% 0,25W
3623	4822 050 24702	4k7 1% 0,6W
3624	4822 050 24702	4k7 1% 0,6W
3625	4822 051 10561	560Ω 2% 0,25W
3626	4822 051 10561	560Ω 2% 0,25W
3627	4822 050 24702	4k7 1% 0,6W
3628	4822 050 24702	4k7 1% 0,6W
3629	4822 051 10561	560Ω 2% 0,25W
3630	4822 051 10561	560Ω 2% 0,25W
3631	4822 050 22202	2k2 1% 0,6W
3632	4822 050 22202	2k2 1% 0,6W
3637	4822 050 21002	1k 1% 0,6W
3638	4822 050 21002	1k 1% 0,6W
3639	4822 116 52234	100k 5% 0,5W
3640	4822 116 52224	470Ω 5% 0,5W
3641	4822 050 24703	47k 1% 0,6W
3645	4822 050 28209	82Ω 1% 0,6W
3646	4822 050 28209	82Ω 1% 0,6W
3647	4822 050 24702	4k7 1% 0,6W
3648	4822 050 24702	4k7 1% 0,6W
3649	4822 051 10182	1k8 2% 0,25W
3650	4822 051 10182	1k8 2% 0,25W
3651	4822 101 21177	20k
3652	4822 101 21177	20k
3653	4822 050 24702	4k7 1% 0,6W
3654	4822 050 24702	4k7 1% 0,6W
3655	4822 051 10182	1k8 2% 0,25W
3656	4822 051 10182	1k8 2% 0,25W
3657	4822 050 28209	82Ω 1% 0,6W
3658	4822 050 28209	82Ω 1% 0,6W
3659	4822 051 10101	100Ω 2% 0,25W
3660	4822 051 10101	100Ω 2% 0,25W
3661	4822 050 25604	560k 1% 0,6W
3662	4822 050 25604	560k 1% 0,6W
3665	4822 052 10479	47Ω 5% 0,33W
3666	4822 052 10479	47Ω 5% 0,33W
3667	4822 050 15602	5k6 1% 0,4W
3668	4822 050 15602	5k6 1% 0,4W
3678	4822 052 10228	2Ω2 5% 0,33W
3679	4822 053 11159	15Ω 5% 2W
3681	4822 053 12391	390Ω 5% 3W
3682	4822 053 12391	390Ω 5% 3W
3683	4822 050 21801	180Ω 1% 0,6W
3684	4822 050 21801	180Ω 1% 0,6W
3693	4822 052 10478	4Ω7 5% 0,33W
3698	4822 116 52217	270Ω 5% 0,5W
3699	4822 116 52217	270Ω 5% 0,5W
3700	4822 116 52217	270Ω 5% 0,5W
3701	4822 116 52217	270Ω 5% 0,5W
3702	4822 116 52217	270Ω 5% 0,5W
3703	4822 116 52217	270Ω 5% 0,5W
3704	4822 050 22201	220Ω 1% 0,6W
3706	4822 050 21002	1k 1% 0,6W
3708	4822 050 21002	1k 1% 0,6W
3710	4822 050 21002	1k 1% 0,6W
3711	4822 050 21002	1k 1% 0,6W
3714	4822 050 21002	1k 1% 0,6W
3724	4822 050 21003	10k 1% 0,6W
3726	4822 050 21003	10k 1% 0,6W
3728	4822 050 21803	18k 1% 0,6W
3730	4822 116 52264	27k 5% 0,5W
3731	4822 116 52264	27k 5% 0,5W
3732	4822 116 52264	27k 5% 0,5W
3733	4822 116 52264	27k 5% 0,5W
3734	4822 116 52264	27k 5% 0,5W
3739	4822 050 24703	47k 1% 0,6W
3740	4822 050 24703	47k 1% 0,6W
3741	4822 050 24703	47k 1% 0,6W
3742	4822 050 24703	47k 1% 0,6W
3744	4822 050 22203	22k 1% 0,6W
3745	4822 116 52235	1M 5% 0,5W
3746	4822 050 24703	47k 1% 0,6W
3747	4822 050 21003	10k 1% 0,6W
3750	4822 050 24702	4k7 1% 0,6W
3751	4822 050 24702	4k7 1% 0,6W
3752	4822 050 24702	4k7 1% 0,6W
3753	4822 050 24702	4k7 1% 0,6W

COILS

5001	4822 146 31083	MAINS TRAFO
5001	4822 146 31106	MAINS TRAFO /01
5252	4822 157 62255	COIL
5253	4822 157 62255	COIL
5254	4822 280 70368	RELAY
5601	4822 101 21178	20k
5602	4822 101 21178	20k
5605	4822 242 72527	CST 4MHz

DIODES

6252	4822 130 61219	BZX79-C10
6253	4822 130 61219	BZX79-C10
6268	4822 130 30621	1N4148
6269	4822 130 30621	1N4148
6270	4822 130 30621	1N4148
6271	4822 130 30621	1N4148
6272	4822 130 30621	1N4148
6273	4822 130 34278	BZX79-B6V8
6274	4822 130 30621	1N4148

3281	4822 053 10152	1k5 5% 1W
3282	4822 050 22202	2k2 1% 0,6W
3283	4822 050 22202	2k2 1% 0,6W
3284	4822 101 10927	470Ω
3285	4822 101 10927	470Ω
3286	4822 116 52224	470Ω 5% 0,5W
3287	4822 116 52224	470Ω 5% 0,5W
3288	4822 050 23302	3k3 1% 0,6W
3289	4822 050 23302	3k3 1% 0,6W
3290	4822 053 10272	2k7 5% 1W
3291	4822 053 10272	2k7 5% 1W
3294	4822 051 10561	560Ω 2% 0,25W
3295	4822 051 10561	560Ω 2% 0,25W
3296	4822 051 10561	560Ω 2% 0,25W
3297	4822 051 10561	560Ω 2% 0,25W
3298	4822 116 52224	470Ω 5% 0,5W
3299	4822 116 52224	470Ω 5% 0,5W
3300	4822 116 52263	2k7 5% 0,5W
3301	4822 116 52263	2k7 5% 0,5W
3302	4822 116 52224	470Ω 5% 0,5W
3303	4822 116 52224	470Ω 5% 0,5W
3304	4822 113 80525	OR15 10% 3W
3305	4822 113 80525	OR15 10% 3W
3306	4822 113 80525	OR15 10% 3W
3307	4822 113 80525	OR15 10% 3W
3308	4822 050 28203	82k 1% 0,6W
3309	4822 050 28203	82k 1% 0,6W
3310	4822 050 28203	82k 1% 0,6W
3311	4822 050 22203	22k 1% 0,6W
3312	4822 050 13303	33k 1% 0,4W
3313	4822 050 22203	22k 1% 0,6W
3314	4822 050 26803	68k 1% 0,6W
3315	4822 050 21501	150Ω 1% 0,6W
3316	4822 050 24702	4k7 1% 0,6W
3318	4822 050 21002	1k 1% 0,6W
3319	4822 050 21002	1k 1% 0,6W
3330	4822 050 21003	10k 1% 0,6W
3331	4822 050 21003	10k 1% 0,6W
3332	4822 050 23302	3k3 1% 0,6W
3333	4822 052 10221	220Ω 5% 0,33W
3342	4822 052 10109	10Ω 5% 0,33W
3343	4822 052 10478	4Ω7 5% 0,33W
3344	4822 050 21802	1k8 1% 0,6W
3345	4822 050 21202	1k2 1% 0,6W
3350	4822 052 10229	22Ω 5% 0,33W
3354	4822 116 52224	470Ω 5% 0,5W
3355	4822 116 52224	470Ω 5% 0,5W
3356	4822 051 10101	100Ω 2% 0,25W
3357	4822 051 10101	100Ω 2% 0,25W
3358	4822 052 10478	4Ω7 5% 0,33W
3359	4822 052 10478	4Ω7 5% 0,33W
3360	4822 052 10479	47Ω 5% 0,33W
3361	4822 052 10479	47Ω 5% 0,33W
3370	4822 050 22203	22k 1% 0,6W
3371	4822 050 22203	22k 1% 0,6W
3372	4822 050 22203	22k 1% 0,6W
3401	4822 050 23901	390Ω 1% 0,6W
3402	4822 050 23901	390Ω 1% 0,6W
3403	4822 116 52272	330k 5% 0,5W
3404	4822 116 52272	330k 5% 0,5W
3405	4822 050 25603	56k 1% 0,6W
3406	4822 050 25603	56k 1% 0,6W
3407	4822 050 23901	390Ω 1% 0,6W
3408	4822 050 23901	390Ω 1% 0,6W
3409	4822 051 10101	100Ω 2% 0,25W
3410	4822 051 10101	100Ω 2% 0,25W
3411	4822 051 10561	560Ω 2% 0,25W
3412	4822 051 10561	560Ω 2% 0,25W
3413	4822 116 52272	330k 5% 0,5W
3414	4822 116 52272	330k 5% 0,5W
3415	4822 116 52264	27k 5% 0,5W
3416	4822 116 52264	27k 5% 0,5W
3417	4822 051 10101	100Ω 2% 0,25W
3418	4822 051 10101	100Ω 2% 0,25W
3419	4822 116 52234	100k 5% 0,5W
3420	4822 116 52234	100k 5% 0,5W
3421	4822 116 52217	270Ω 5% 0,5W
3422	4822 116 52217	270Ω 5% 0,5W
3431	4822 051 10101	100Ω 2% 0,25W
3432	4822 051 10101	100Ω 2% 0,25W
3433	4822 051 10101	100Ω 2% 0,25W
3434	4822 051 10101	100Ω 2% 0,25W
3435	4822 051 10101	100Ω 2% 0,25W
3436	4822 051 10101	100Ω 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10101	100Ω 2% 0,25W
3439	4822 051 10101	100Ω 2% 0,25W
3440	4822 051 10101	100Ω 2% 0,25W
3441	4822 051 10101	100Ω 2% 0,25W
3442	4822 051 10101	100Ω 2% 0,25W
3443	4822 116 52217	270Ω 5% 0,5W
3444	4822 116 52217	270Ω 5% 0,5W
3447	4822 050 23302	3k3 1% 0,6W
3455	4822 050 28209	82Ω 1% 0,6W
3600	4822 050 24702	4k7 1% 0,6W
3601	4822 101 21175	50k
3603	4822 101 21176	100k
3605	4822 050 15602	5k6 1% 0,4W
3606	4822 050 15602	5k6 1% 0,4W
3607	4822 050 24703	47k 1% 0,6W
3608	4822 050 24703	47k 1% 0,6W
3609	4822 050 21002	1k 1% 0,6W
3610	4822 050 21002	1k 1% 0,6W
3611	4822 050 13303	33k 1% 0,4W
3612	4822 050 13303	33k 1% 0,4W
3613	4822 050 21002	1k 1% 0,6W
3614	4822 050 21002	1k 1% 0,6W
3615	4822 050 21002	1k 1% 0,6W

6275	4822 130 30621	1N4148
6276	4822 130 30621	1N4148
6277	4822 130 30621	1N4148
6278	5322 130 30684	1N4002GP
6279	5322 130 30684	1N4002GP
6280	5322 130 30684	1N4002GP
6281	5322 130 30684	1N4002GP
6282	4822 130 34281	BZX79-C15
6283	4822 130 82079	D3SBA20
6290	4822 130 30621	1N4148
6291	4822 130 30621	1N4148
6292	4822 130 30621	1N4148
6293	4822 130 30621	1N4148
6294	4822 130 30621	1N4148
6295	4822 130 30621	1N4148
6296	4822 130 30621	1N4148
6298	4822 130 34281	BZX79-C15
6299	4822 130 30621	1N4148
6301	4822 130 34499	BZX79-C20
6303	4822 130 30621	1N4148
6304	4822 130 30621	1N4148
6318	4822 130 30621	1N4148
6319	4822 130 30621	1N4148
6320	4822 130 30621	1N4148
6321	4822 130 30621	1N4148
6601	4822 130 30621	1N4148
6603	4822 130 30621	1N4148
6604	4822 130 34278	BZX79-C6V8
6605	4822 130 34278	BZX79-C6V8
6606	4822 130 30621	1N4148
6607	4822 130 30621	1N4148
6608	4822 130 30621	1N4148
6614	4822 130 34167	BZX79-C6V2
6615	4822 130 34174	BZX79-C4V7
6616	4822 130 34167	BZX79-C6V2
6632	4822 130 30621	1N4148
6633	4822 130 30621	1N4148
6634	4822 130 30621	1N4148
6635	4822 130 82978	LED
6636	4822 130 82978	LED
6640	4822 130 82978	LED
6641	4822 130 82978	LED
6648	4822 130 82978	LED
6650	4822 130 82978	LED
6655	4822 130 82978	LED
6669	4822 130 82978	LED
6682	4822 130 82978	LED
6683	4822 130 82978	LED
6684	4822 130 82978	LED
6690	5322 130 34834	BZX79-C3V6
6691	5322 130 34834	BZX79-C3V6
6692	5322 130 34834	BZX79-C3V6
6693	5322 130 34834	BZX79-C3V6
6700	4822 214 52009	GP1U58XP

TRANSISTORS & IC's

7250	4822 130 40937	BC548B
7251	4822 130 40937	BC548B
7252	4822 209 80891	78M05CT
7255	4822 209 83274	NJM4560D
7256	4822 130 41691	BC556B
7257	4822 130 41691	BC556B
7258	4822 130 42607	BF483
7259	4822 130 42607	BF483
7260	4822 130 60117	2SC3419
7261	4822 130 60117	2SC3419
7264	4822 130 40937	BC548B
7265	4822 130 40937	BC548B
7266	4822 130 44197	BC558B
7267	4822 130 44197	BC558B
7268	4822 130 63007	B2SD1893
7269	4822 130 63007	B2SD1893
7274	4822 130 63006	B2SD1253
7275	4822 130 63006	B2SD1253
7276	4822 130 40937	BC548B
7277	4822 130 44461	BC546B
7281	4822 130 62952	BDT61F
7282	4822 130 40824	BD136
7283	4822 130 40937	BC548B
7284	4822 130 40937	BC548B
7285	4822 130 40937	BC548B
7286	4822 130 40941	BC558
7287	4822 130 40937	BC548B
7288	4822 130 40937	BC548B
7401	4822 209 70157	NJM4560DD
7402	4822 209 72748	LC7821
7601	4822 130 40937	BC548B
7602	4822 130 40937	BC548B
7603	4822 209 30941	NJM2068D
7604	4822 130 40937	BC548B
7605	4822 209 10263	HEF4052BP
7607	4822 130 40937	BC548B
7608	4822 130 40937	BC548B
7609	4822 209 83274	NJM4560D
7610	4822 209 63667	BA6229
7612	4822 130 44197	BC558B
7631	4822 130 40937	BC548B
7633	4822 130 40937	BC548B
7636	4822 130 40937	BC548B
7639	4822 130 44197	BC558B
7647	5322 209 11532	PC74HC4094P
7648	5322 209 11532	PC74HC4094P
7650	4822 209 31194	68HC05C4 FA910-91-